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GRIFFITH & TURNER CO.

ESTABLISHED 1860.

No. 17 — 1904

FARM AND GARDEN SUPPLIES

BRANCH HOUSES,
116 & 118 LIGHT STREET.
366 N. GAY STREET.
BALTIMORE
AND REISTERSTOWN, MD.

GENERAL OFFICES,
205, 207, 209, 213 & 215 N. PACA ST.
BALTIMORE.

Prospective Customers who are not rated in the Commercial Agencies will save time in having their goods shipped by accompanying their Orders either with the Cash or satisfactory references. Baltimore references preferred.

NOTICE.—We make a specialty of quoting on complete outfits. SEND FOR PRICES.

FILLING ORDERS.—Every order is filled and forwarded as promptly as possible, but if not duly received, please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.

PACKING AND SHIPPING.—We make no charge for boxes or packing of retail orders, and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags as follows: Peck and ½ bushel, 10 cents each; 1 bushel, 15 cents each; 2 bushels, 20 cents each.

HOW TO REMIT.—Remittances should be made by Draft, Express Money Order, P. O. Money Order or Registered Letter.

WE PAY THE POSTAGE TO ANY POST OFFICE IN THE UNITED STATES ON ALL VEGETABLES AND FLOWER SEEDS, by the Packet, Ounce or Quarter Pound. On quantities over quarter pound the purchaser pays the postage at a rate of 8 cents per pound. On Beans, Peas and Corn, 8 cents per pint or 15 cents per quart should be added to Catalogue Price to pay postage.

ON EVERY ORDER be sure to sign your name and give your address plainly, as we frequently receive orders lacking either or both; also give full shipping instructions.

PRICES TO MARKET GARDENERS.—Market gardeners, and all other purchasers of Seeds in large quantities, should send for our special prices.

TIME FOR SOWING IN THE OPEN GROUND.

THESE DIRECTIONS apply to the vicinity of Baltimore and Philadelphia. South of this they should be sown earlier, and North later.

BEANS.—From 1st of May till August.

BEETS.—Soon as ground can be worked in spring.

CABBAGE.—For early use, sow in hot bed in February and transplant in April to open ground; for late use, sow in May or June.

CAULIFLOWER.—Sow about the same time as Cabbage. For late crop sow in June, and they will head up in cool weather, and escape injury from the heat.

CARROT.—For early, sow from 1st of April to middle of May, and for late crop in June or July.

CELERY.—Sow as soon as ground is open in spring, and transplant in July.

CUCUMBER.—Sow about 1st of May for early, and for pickling in July.

LETTUCE.- Sow as soon as ground can be worked in spring, and at intervals as desired.

MELONS.—Sow in May and June.

ONION.—Sow early as possible in spring.

PARSNIP.—Soon as ground can be worked.

PEAS.—Sow in March and at intervals through the season, as desired.

PUMPKIN.—Plant in May or June.

RADISH.—Soon as ground is ready, and all through the season, at intervals.

SQUASH.—Soon as ground is warm.

TOMATO.—Sow in hot bed in March, and transplant about middle of May.

TURNIP—For early use, in April; for main crop, July and August.

CABBAGE.—1 oz. of Seed will produce	**2000**	**plants.**
CAULIFLOWER.—1 oz. of Seed will produce	**2000**	**"**
CELERY.—1 oz. of Seed will produce	**3000**	**"**
EGG PLANT.—1 oz. of Seed will produce	**1000**	**"**
LETTUCE.—1 oz. of Seed will produce	**3000**	**"**
PEPPER.—1 oz. of Seed will produce	**1000**	**"**
TOMATO.—1 oz. of Seed will produce	**1500**	**"**

TO COUNTRY MERCHANTS.

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers.

Our Seeds are select and tested, and give satisfaction wherever used.

Beans, Peas, Corn, etc., in bulk, at lowest wholesale rates. Write for special quotations in quantities.

Should you have placed your order for small papers for this year, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

HINTS ON TRANSPLANTING TREES.

The proper season for transplanting fruit trees is during the months of February, March and April in the spring, and October, November and December in the autumn.

PROPER AGE AND SIZE OF TREES FOR TRANSPLANTING.

Experience has taught observing planters that a small, young tree, set at the same time, will in a few years overtake and pass a large one, and continue more vigorous and productive. Large trees are necessarily or unavoidably more injured in digging than small ones. The latter can be moved with their system of roots almost entire.

NUMBER OF TREES AND PLANTS TO AN ACRE.

3 feet each way	4840	20 feet each way	108
4 " " "	2722	25 " " "	69
5 " " "	1742	30 " " "	48
6 " " "	1210	33 " " "	40
8 " " "	680	35 " " "	35
10 " " "	435	40 " " "	27
12 " " "	302	45 " " "	21
15 " " "	193	50 " " "	17
18 " " "	134		

DISTANCE FOR PLANTING.

Std. Apple	33 to 40 feet each way.
Std. Pear and large-growing Cherry	20 " " "
Duke and Morello Cherry	20 " " "
Std. Plum, Apricot and Nectarine	15 to 20 " " "
Peach	20 " " "
Quince	12 " " "
Dwarf Pear	10 " " "
Currant, Gooseberry, Raspberry and Blackberry	4 to 5 " " "
Grapes	6 to 10 " " "

WEIGHT OF AGRICULTURAL SEEDS, PER BUSHEL, AND QUANTITY USUALLY SOWN PER ACRE.

Weight per Bushel.		Pounds per Acre.
14 lbs.	Kentucky Blue	28 lbs.
10 "	Red Top, if for lawns	30 to 40 "
10 "	Red Top, if for pasture	15 to 30 "
32 "	Red Top, extra recleaned	20 to 25 "
14 "	Orchard Grass	42 "
24 "	English Rye or Perennial Rye	60 "
22 "	Italian Rye	50 "
14 "	Meadow Fescue	50 "
14 "	Tall Meadow Fescue	50 "
12 "	Sheep Fescue	30 "
7 "	Meadow Foxtail	30 "
21 "	Crested Dog's Tail	25 "
14 "	Awnless Brome	35 to 40 "
14 "	Wood Meadow	30 "
20 "	Creeping Bent	50 "
10 "	Tall Meadow Oat	50 "
45 "	Timothy, alone	½ bus.
	" with other grasses	8 to 10 lbs.
60 "	Alsike, alone	6 "
60 "	Alfalfa or Lucerne	20 "
60 "	White Clover, alone	6 "
..	White Clover, with other grasses	3 "
20 "	Evergreen Lawn	3 to 4 bus.
60 "	Crimson Clover	15 to 20 lbs.
50 "	German Millet	50 "
48 "	Hungarian Millet	48 "
60 "	Red Clover	15 "
	Together for an acre—	
..	Red Clover	8 "
..	Timothy	10 "
..	Red Top	14 "
60 "	Wheat, broadcast	1½ to 2 bus.
..	Wheat, in drills	1¼ "
56 "	Rye, broadcast	1 "
32 "	Oats, broadcast	2 to 2½ "
48 "	Sorghum, drills	4 qts.
..	Sorghum, broadcast	8 "
56 "	Flax, for seed	1 bus.
..	Flax, for fibre	2 to 3 "

WEIGHT OF AGRICULTURAL SEEDS, QUANTITY, ETC.—*Continued.*

Weight per Bushel.		Pounds per Acre.
56 lbs.	Field Corn, in hills	8 qts.
56 "	Corn, for soiling	1 to 2 bus.
60 "	Vetches, broadcast	2 to 3 "
48 "	Barley, broadcast	2 "
..	Broom Corn, in hills	6 to 8 qts.
48 "	Buckwheat, broadcast	1 bus.
..	Teosinte, in hills	1 to 3 lbs.

VEGETABLE SEED TABLET

THE QUANTITY OF SEED USUALLY SOWN TO AN ACRE.

Asparagus	5 lbs.
Beans, dwarf in drills	1 to 1½ "
Beans, pole, in hills	8 to 10 qts.
Beet, in drills	4 to 6 lbs.
Cabbage, in beds, to transplant	¼ lb.
Carrot, in drills	2 to 3 lbs.
Celery, to transplant	½ lb.
Corn, in hills (sugar)	8 qts.
Kale	4 to 6 lbs.
Melon, musk	1½ to 2 "
Melon, water	2 to 3 lbs.
Mustard, broadcast	12 to 16 lbs.
Mangelwurzel	4 to 6 lbs.
Onions, in drills to make large onions	6 to 8 "
Onion Seeds, for small sets	40 to 60 "
Parsnip, in drills	4 to 6 "
Peas, early, in drills	1 bus.
Peas, Marrowfat, in drills	1¼ "
Peas, broadcast	2 to 3 "
Potato, cut tubers, in drills	8 "
Radish, in drills	6 to 8 lbs.
Radish, broadcast	10 "
Salsify, in drills	6 to 8 "
Spinach, in drills	12 to 15 "
Squash, bush varieties, in hills	4 to 6 "
Squash, running varieties in hills	3 to 4 "
Turnip, in drills	1 lb.
Turnip, broadcast	2 to 3 lbs.
Tomato, to transplant	¼ lb.

QUANTITY OF SEEDS REQUIRED FOR A GIVEN NUMBER OF PLANTS, NUMBER OF HILLS, OR LENGTH OF DRILLS.

Asparagus	1 oz. to 50 ft. drill
Beet	1 oz. to 50 ft. drill
Celery	1 oz. to 100 ft. drill
Carrot	1 oz. to 100 ft. drill
Endive	1 oz. to 150 ft. drill
Egg Plant	1 oz. to 300 ft. drill
Lettuce	1 oz. to 150 ft. drill
Okra	4 oz. to 100 ft. [illegible]
Onion	1 oz. to [illegible]
Onion Sets, small	1 qt. to [illegible]
Parsley	1 oz. to [illegible]
Parsnip	3 oz. to [illegible]
Radish	2 oz. to 1[illegible]
Salsify	1 oz. to 70 [illegible]
Spinach	2 oz. to 100 ft. drill
Turnip	1 oz. to 150 ft. drill
Peas	1 qt. to 100 ft. drill
Dwarf Beans	1 qt. to 100 ft. drill
Leek	1 oz. to 100 ft. drill
Pole Beans	1 qt. to 150 hills
Corn	1 qt. to 200 hills
Cucumber	1 oz. to 50 hills
Watermelon	1 oz. to 30 hills
Muskmelon	1 oz. to 60 hills
Pumpkin	1 oz. to 40 hills
Early Squash	1 oz. to 50 hills
Marrow Squash	1 oz. to 16 hills
Cabbage	1 oz. seed will produce 2000 plants
Caulifl'r	1 oz. seed will produce 2000 plants
Celery	1 oz. seed will produce 3000 plants
Egg Plant	1 oz. seed will produce 1000 plants
Lettuce	1 oz. seed will produce 3000 plants
Pepper	1 oz. seed will produce 1000 plants
Tomato	1 oz. seed will produce 1500 plants

FERTILIZERS FOR THE FARM, LAWN AND GARDEN.

The application of Fertilizers has been a topic much discussed among farmers generally. The quality and requirements of the soil are so varied, some lands being deficient in Potash, Phosphoric Acid or some other chemical ingredient, that it is frequently very difficult for the farmer to determine just what mixture he needs. We give below a line of fertilizers best adapted to the various soils and crops.

Animal Bone Phosphate.

Made principally from Animal Bone, Potash and Ammoniates in proper proportion. A complete manure always gives good results. Specially adapted to the growth of Peas, Cabbage, Wheat and Grass—it contains all of the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price, $28.00 per ton.

Ammoniated Alkaline Plant Food.

Our old stand-by for summer crops; is used largely on Potatoes, Corn, Tobacco and other summer crops, stands the hot, dry weather particularly well.

Price, $22.50 per ton.

Ammoniated Butchers' Bone Phosphate.

Is made largely from slaughter-house stock; used principally for Wheat and Grass, as well as by growers of Corn and Tomatoes for canning purposes; a good article at a low price.

Price, $22.50 per ton.

Soft Ground Bone.

Made from softer material than the regular "Ground Bone," and contains some little meat and blood. The great objection to the use of Pure Bone (the price) no longer prevents its use by anyone wanting to restore worn-out land. Try it and be convinced.

Price, $27.00 per ton.

Dissolved Bone.

Made from stock containing some meat, thoroughly dissolved, and in fine drilling condition. Farmers wishing a fertilizer for immediate action will find in this brand a reliable manure of good value, and one whose good effect can be seen for a long time

Price, $27.00 per ton.

Soluble Bone Phosphate.

A good cheap Fertilizer Quite a number of chemists claim that Ammonia adds very much to the cost of Fertilizers without being of much agricultural value; that is, sufficient Ammonia can be obtained from the atmosphere, etc., etc Whether or not this theory is correct, quite a number of people have used our Soluble Bone with very satisfactory results. To supply such a trade we offer the above.

Price, $16.00 per ton.

Tobacco Bed Fertilizer.

This brand is specially well adapted for use on tobacco beds, containing 10 per cent, of Ammonia and a large percentage of Potash and Phosphoric Acid. A most excellent substitute for Peruvian Guano. In bags, 167 lbs.

$4.00 per bag, $45.00 per ton.

Special Mixture.

A new brand introduced by us this year: a complete Fertilizer, containing Ammonia, Potash and available Phosphoric Acid in proper proportions.

Price, $17.00 per ton.

Peruvian Guano.

10 per cent. goods. In bags of 167 pounds.

High Grade Acid Phosphate.

Kainit, Muriate of Potash.

Nitrate of Soda.

Fine Ground Fish.

Ground Tankage.

Prices on application.

Land Plaster.

In bags 200 pounds each.

90c. per bag. $7.50 per ton.

Pulverized Sheep Manure.

This is purely a natural and most nutritious plant food, clean to handle, and its effect is immediate and lasting. There is nothing better to mix with soil for potting plants. Florists who use it extensively advise mixing about one-seventh manure and six-sevenths soil. As a top dressing for lawns, it is unequaled.

5 lbs., 25c.; 10 lbs., 40c.; 30 lbs., $1.00; 50 lbs., $1.50; 100 lbs., $2.50.

Special prices in tons, ½ tons, or car load.

Bone Flour.

Made especially for Florists and Gardeners. This flour is passed through a 80-mesh screen, and is consequently exceedingly fine, and in addition to this, it is the Pure Bone, containing no foreign matter at all. Write for sample.

Price, $4.00 per bag of 157 lbs.

Jadoo Fibre.

A new material in which every plant thrives without earth.

5 lbs., 30c.; 10 lbs., 50c.; 25 lbs., $1.10; bags of 120 to 130 lbs., 3c. per lb.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

TO OUR FRIENDS AND PATRONS

We take pleasure in presenting to you our 1904 Catalogue, **larger than ever and covering every department of the Farm, Garden, Dairy and Poultry Yard.**

We are now occupying our new building, and will state in this connection that the combined storage room of our two Paca Street Warehouses contain between 45,000 and 50,000 square feet of floor space, more than a mile; these are in addition to our stores and warehouses on Light Street, Gay Street, and Reisterstown.

It will be recognized by every merchant and farmer the advantage to be derived, not only from such a large stock, but one of such great variety.

This Catalogue is **FREE** to any one sending us a postal with their name and address plainly written. Thanking you for your past patronage, and soliciting your further commands, we are,

Very respectfully,

JOHN M. GRIFFITH, President.
M. S. GRIFFITH, V.-Prest., Genl. Mgr.
JOHN L. TURNER, Secy. and Treas.
WM. E. QUINN, Asst. Secy
JAMES M. HOBBS, Asst. Mgr.

GRIFFITH & TURNER COMPANY

205, 207, 209, 213 and 215 N. PACA ST., BALTIMORE, MD., U. S. A.

Branches: 116 & 118 Light St.; 366 N. Gay St.; Reisterstown, Balto. Co., Md. **Cable Address, "Griffturn, Baltimore."**

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GRIFFITH & TURNER CO.'S

SELECTED

List of TESTED SEEDS for 1904

OUR SEEDS are the **BEST that can be obtained anywhere** because we are as **careful** in our selection as it is **possible** for anyone to be, and are **constantly** on the **lookout** for the **best** of **everything**, but will not put on the market **anything** until it has been **thoroughly tried** and proved.

We do not advertise **"cheap seeds"** because the best seeds cannot be put in competition with "cheap seeds," but we sell as low as any of the other reputable houses in the country. No matter what others may ask for their seeds, better quality cannot be obtained **anywhere**, as our constantly and rapidly increasing trade does and will testify.

Our seeds are ALL TESTED thoroughly before being placed on the market.

READ THE FOLLOWING AND BE GUIDED.

Gentlemen: Please send me your large Catalogue for 1903. I always like to have one, from which to select my season's seed, which I have done for several years past. Your seeds give perfect satisfaction. **Some of my neighbors say I grow things by MAGIC**, but I think the biggest part of the secret is **GOOD SEED.**

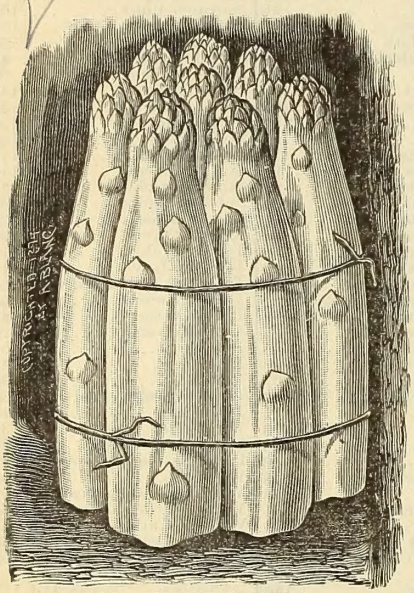
R. B. SHREVE, Fairfax County, Virginia.

GRIFFITH & TURNER CO. gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any Seeds, Bulbs or Plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

ASPARAGUS, German, Sparsel. Etc.

This is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or in the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four to five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row. Thin to nine inches in the row.

MAMMOTH WHITE ASPARAGUS.



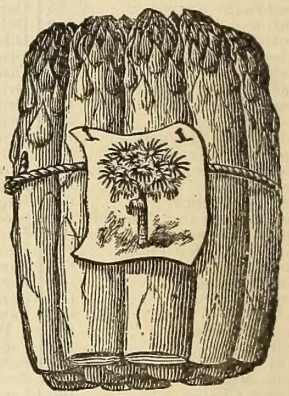
MAMMOTH WHITE.

In addition to the marvelous advantage of its pure white color, the Columbian Mammoth White Asparagus is even more robust and vigorous in habit and throws larger shoots, and fully as many of them, as the Conover's Colossal.

When we add to these the immense advantage of its needing no earthing up in order to furnish the white shoots so much sought after, we think it evident that it is superior to any sort now in cultivation, and that no Asparagus grower can afford to plant seed of any other kind. Market gardeners, growers for canners and amateurs should give this great acquisition a thorough trial. Pkt., **5c.** Oz., **10c.** ¼ lb., **20c.** Lb., **60c.**

BARR'S MAMMOTH. This splendid variety, highly recommended for its many good qualities, is very productive and about 10 days earlier than the Conover Colossal. The stalks are very large and retain their thickness completely up to the top of the shoots; very tender and succulent; of delicious flavor; grow very quickly; light in color. Packet, **5c.** Ounce, **10c.** ¼ pound, **20c.** Pound, **50c.** 5 pounds, **$2.00.**

PALMETTO ASPARAGUS.



This Asparagus, said to have originated in South Carolina, is now quite extensively grown by Southern gardeners for New York and Philadelphia markets, where it sells at very high prices, owing to its mammoth size and regularity. An average bunch of 15 shoots will measure 13 to 14 inches in circumference. For several seasons this Asparagus has reached Northern markets 10 days ahead of all other varieties, and sold at fabulous prices. Pkt., **5c.** Oz., **10c.** ¼ lb., **20c.** Lb., **50c.** 5 lbs., **$2.00.**

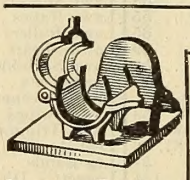
CONOVER'S COLOSSAL.—The old and well-known variety. Pkt., **5c.** Oz., **10c.** ¼ lb., **15c.** Lb., **40c.** 5 lbs., **$1.50.**

ASPARAGUS ROOTS.

A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 7,260 roots will plant an acre. Select good loamy soil, plough deep, put in good quantity of manure, and 100 pounds kainit to 1,000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants nine inches apart. In field culture rows are placed four feet apart.

	Per 100.	Per 1000.
BARR'S MAMMOTH	**$1.00**	**$4.50**
COLOSSAL	**.75**	**4.00**
PALMETTO	**.75**	**4.00**
MAMMOTH WHITE	**1.00**	**5.00**

Extra size roots, 50c. per 1000 additional to above prices, by express, not prepaid.



Asparagus Buncher.

BEST ASPARAGUS BUNCHER.....$1.50
ASPARAGUS KNIVES..30c. By mail, **40c.**

ARTICHOKES.

LARGE GREEN GLOBE.—This is a very nice vegetable to eat. Some prefer it cooked like Asparagus; that is, take the flower head before it begins to open and cook much the same way as Asparagus. Packet, **10c.** Ounce, **30c.**

JERUSALEM.—The tubers roasted or boiled, served with butter, salt and pepper, makes a dish some think superior to potatoes. They are most excellent feed for cows and will cause an increase in quantity and qaulity of milk. Peck, **$1.00.** Bushel, **$2.50.**

DWARF BEANS

1 quart will plant 100 feet of drill.

Add 8c. per pint, or **15c.** per quart, on all Beans if to be sent by mail.

Select light, warm soil, and plant when danger from frost is past in the spring, in drills 2 to 2½ feet apart, dropping the Beans about 2 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.

WHITE MARROWFAT.—Extensively grown for sale as a dry bean for winter use. Quart, **20c.** Peck, **$1.10.** Bushel, **$4.00.**

WHITE NAVY, OR SMALL PEA BEAN.—A well-known variety for field culture, very prolific. Quart, **20c.** Peck, **$1.10.** Bushel, **$3.50.**

All Prices Subject to Change Without Notice.

BEANS.

DWARF BUSH OR SNAP.

DWARF GREEN PODDED.

EARLIEST MARKET.—This is well named, being the earliest bean in existence, and therefore very profitable to the market gardener, and desirble to the private gardener as well. The pods are long, broad, green and very showy, reaching maturity in 30 days from germination, and the habit of vine very productive. Pint, **20c.** Qt., **35c.** Peck, **$2.00.** Bus., **$6.00.**

EXTRA EARLY BOUNTIFUL (Flat Green Pod).—A prolific and continuous bearer. The first in the spring; the last in the fall. Absolutely stringless, very tender, and of delicious flavor. Pt., **20c.** Qt., **35c.** Peck, **$1.75.** Bus., **$6.00.**

EXTRA EARLY REFUGEE.—It is similar in every respect to the ordinary Refugee, but is nearly two weeks earlier. It is enormously prolific, and from its earliness is almost certain to produce a crop, no matter how unfavorable the season. Is rapidly becoming a favorite sort, as it matures equally early with Red Valentine, and has that beautiful silvery green color in the pods that is so much desired. Pt., **15c.** Qt., **25c.** Peck, **$1.25.** Bus., **$4.50.**

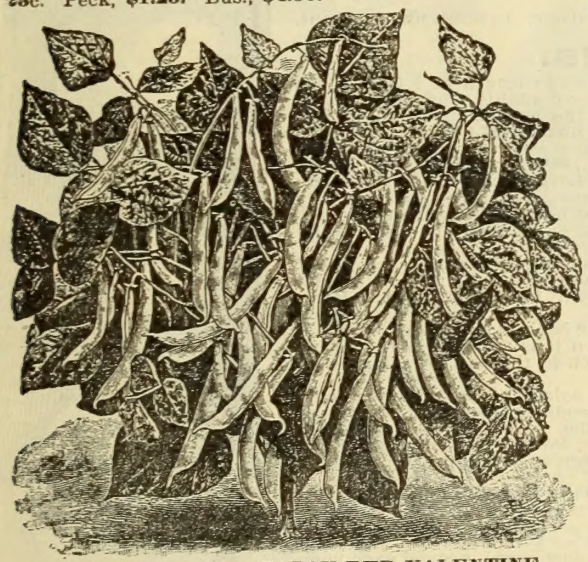
REFUGEE, OR 1000 TO 1.—A medium to late variety, very productive and largely grown for pickling; handsome and tender pods. Pt., **15c.** Qt., **25c.** Peck, **$1.25.** Bus., **$4.75.**

EARLY MOHAWK.—Pt., **15c.** Qt., **25c.** Peck, **$1.25.** Bus., **$4.50.**

DWARF HORTICULTURAL (Cherry).—A very green-podde sort, used as a shell bean, and for this purpose is one of the finest in general use; long a favorite with those who use a shell bean in a green state. Pt., **15c.** Qt., **25c.** Peck, **$1.25.** Bus., **$4.75.**

BEST OF ALL.—One of the most valuable green-podded sorts for family or market use. The pods are six inches long, very fleshy, succulent, stringless, and of rich flavor; are produced early and abundantly. Qt., **25c.** Peck, **$1.25.** Bus., **$4.75.**

LONG YELLOW SIX WEEKS.—Very early, hardy bean. Pt., **15c.** Qt. **25c.** Peck, **$1.25.** Bus., **$4.50.**



HOPKINS' EXTRA EARLY RED VALENTINE.

Ten days earlier than the ordinary Red Valentine Bean, and therefore the best for trackers and market gardeners. It is without doubt the very best and earliest green Snap Short Bean. The habit of the vine is dwarfed and very uniform. Color of pods light green, round, curved, succulent, prolific, continuing long in edible condition. Pt., **15c.** Qt., **25c.** Peck, **$1.25.** Bus., **$4.50.**

EARLY RED VALENTINE.—Pt., 15c. Qt., 25c. Peck, **$1.25.** Bus., **$4.25.**

BURPEE'S NEW STRINGLESS GREEN POD.—One of the earliest varieties, pods round and full, absolutely stringless, and of beautiful fleshy appearance; quality excellent. The only green-pod bean of which the pods never develop any strings. Pt., **15c.** Qt., **25c.** Peck, **$1.50.** Bus., **$5.25.**

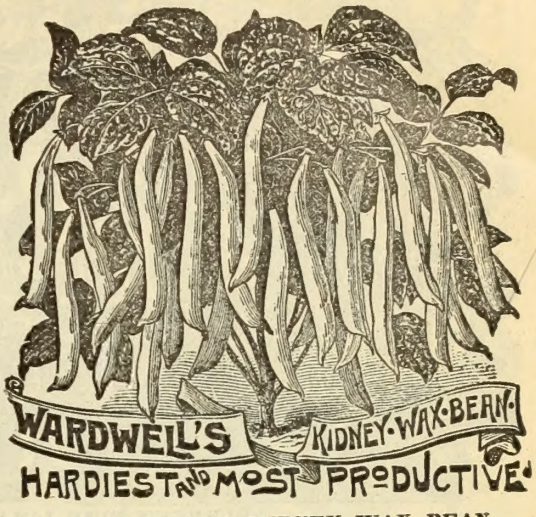
GIANT STRINGLESS GREEN POD.—Resembles very much the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages and of mild flavor. Pt., **15c.** Qt., **25c.** Peck, **$1.35.** Bus., **$5.00.**

DWARF WAX PODDED.

DAVIS' KIDNEY WHITE WAX.—Vigorous grower, bears abundantly; long, white, handsome pods, which are crisp and tender if gathered when young. Pt., **15c.** Qt., **30c.** Peck, **$2.00.** Bus., **$7.00.**

DWARF PROLIFIC BLACK WAX.—Yellow pod; a very superior snap short, ripening among the first earlies, and having the best characteristics. Very tender. Pt., **15c.** Qt., **30c.** Peck, **$2.00.** Bus., **$7.50.**

DWARF WAX PODDED.



WARDWELL'S KIDNEY WAX BEAN.

This is one of the best wax sorts. The vines are remarkably vigorous, hardy and productive. The pods are very large, smooth, showy, tender, perfectly stringless, and of unusually fine quality. Pt., **20c.** Qt., **35c.** Peck, **$2.25.** Bus., **$8.00.**

JONES' WHITE SEED STRINGLESS ROUND POD WAX BEAN.—Nice bush type, strong growth, rust-proof on all soils and in the most unfavorable seasons. It is nearly a week earlier than any strain of Black Wax. Pods long, perfectly round and very solid. Can be planted later in the season than any other Wax Bean with a certainty of a crop. Perfectly stringless at all stages of growth, retains its brittleness and fine table quality when nearly matured. When ripe, seeds are white, medium round and plump, and will grade as No. 1 Medium or Small Marrows. Pt., **20c.** Qt., **35c.**

NEW PENCIL POD WAX BEAN.—Very early and productive. Pods long, straight and handsome; color light golden yellow; strong and vigorous bush. One of the best varieties. Pt., **15c.** Qt., **30c.** Peck, **$2.00** Bus., **$7.50.**

CURRIE'S RUST-PROOF BLACK WAX.—For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and very meaty, of a beautiful color; quality not surpassed, and for productiveness it is unequaled. Pt., **15c.** Qt., **30c.** Peck, **$2.00.** Bus. **$7.00.**

IMPROVED RUST-PROOF GOLDEN WAX.—This is the earliest handsomest and hardiest of all the Wax Beans. The pods are straight long and thicker than the ordinary Golden Wax, much superior in quality, absolutely rust-proof, and sure to become the favorite Wax Bean; in fact, it has already gained great popularity with growers. Pt., **15c.** Qt., **30c.** Peck, **$2.00.** Bus., **$7.25.**

GOLDEN-EYED WAX.—This Bush Bean is very early; the vine grows vigorously to about one and a-half feet high, holding pods off the ground. The pods are handsome, long, straight and flat, remarkably free from rust. Pt., **15c.** Qt., **25c.** Peck, **$1.75.** Bus., **$6.50.**

BUSH LIMA BEANS.

THE BUSH LIMA BEANS ARE RAPIDLY GAINING FRIENDS AND HAVE EVIDENTLY COME TO STAY.

BURPEE'S BUSH LIMA.

The bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush, from 2 to 3 feet in diameter. The bush character is thoroughly established, not one plant in a thousand showing any disposition "to run." It is an immense yielder, each bush bearing from 50 to 200 of the handsome large pods, well filled with very large beans, which are identical in size and luscious flavor to the well-known large Pole Limas. By the introduction of this most valuable novelty the largest and best Lima Beans can now be raised in quantity at little cost, without the expense and labor attached to the use of poles. Pint, **15c.** Quart, **25c.** Peck, **$1.75.** Bushel, **$6.50.**

BURPEE'S QUARTER CENTURY BUSH LIMA.—A strain of the above, but an improvement. About 10 days earlier. Pint, **25c.** Quart, **40c.** Peck, **$2.75.**

DREER'S BUSH LIMA.

A DWARF variety of the Dreer's Improved Lima, which has been fixed in its character of a bush bean; it is very prolific, single plants often producing from 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima.

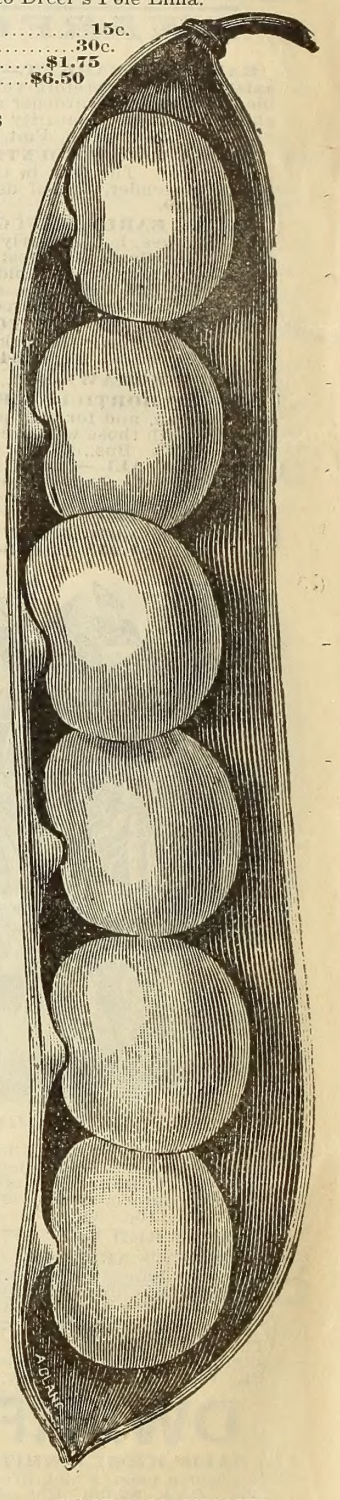
Pint.....**15c.**
Quart.....**30c.**
Peck.....**$1.75**
Bushel.....**$6.50**

HENDERSON'S DWARF LIMA.

These are valuable because they do not need poles, and being so dwarf can be planted close together.

They are very early and prolific, continuing to bear until frost.

Pint.....**$0.15**
Quart.....**.30**
Peck.....**1.75**
Bushel.....**6.50**



FORD'S MAMMOTH.

POLE LIMA BEANS.

FORD'S MAMMOTH POLE LIMA BEAN.—The pods grow to an average length of 8 inches, are produced in great clusters, with from 5 to 7 beans per pod, of most excellent quality, for using either green or dry. The vines grow vigorously, setting the beans early at the bottom of the pole, and continue in bearing up to frost. Pint, **15c.** Quart, **30c.** Peck, **$1.85.** Bushel, **$7.00.**

EXTRA EARLY JERSEY LIMA.—This variety is 2 weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow. Pt., **15c.** Qt., **30c.** Pk., **$1.75.** Bus., **$6.50.**

SEIBERT'S LARGE EARLY.—A very early and prolific strain of the Large Lima. The vines begin bearing pods considerably earlier than the regular strains of Large Limas. While the pods are only of medium length, they are well filled, containing 3 and 4 large, fleshy beans which are extremely tender and fine in flavor. The pods are easily shelled, and growing in clusters are also readily gathered. Pint, **15c.** Quart, **25c.** Peck, **$1.65.** Bushel, **$6.00.**

EXTRA LARGE LIMA.—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean, surpasses all in quality, and is the favorite with most people. The beans are very large and tender and of delicious flavor. Pint, **15c.** Quart, **30c.** Peck, **$1.75.** Bushel, **$6.50.**

DREER'S IMPROVED, OR CHALLENGE POLE LIMA.—This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the Large Lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time after maturing. Pint, **15c.** Quart, **30c.** Peck, **$1.75.** Bushel, **$6.50.**

KING OF THE GARDEN LIMA.—This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary Lima, bearing pods 5 to 7 inches long in clusters of 4 and 5, with 5 or 6 beans in a pod. Pint, **15c.** Quart, **30c.** Peck, **$1.75.** Bushel, **$6.50.**

LARGE WHITE LIMA.—One of the best of the pole beans, either green or dry. Pint, **15c.** Quart, **25c.** Peck, **$1.65.** Bushel, **$6.00.**

CAROLINA, OR SIEVA.—A seedling variety of Large White Lima, with small pods, usually about 3 inches long. A little earlier and hardier. Pint, **15c.** Quart, **25c.** Peck, **$1.65.** Bushel, **$6.00.**

POLE BEANS.

Set the poles 3 or 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole, thinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties, with the exception that they crave stronger soil and do best in a sheltered location.

MARYLAND WHITE.—This new White Pole Bean is destined to take its place as one of the best beans ever grown for general purposes. Its thick, meaty, green pods are very tender, rich in flavor, and produced in great abundance. It is equally valuable as a snap or shell bean. It has been grown in Maryland to a very limited extent for a few years, and those who have grown it once want it again. Pint, **15c.** Quart, **30c.** Peck, **$1.75.** Bushel, **$6.50.**

LAZY WIFE.—Large, pale green pods, very thick-meated, stringless, rich, tender and buttery; ripens early; clings well to the pole; enormously productive; splendid either as a snap or shell bean; retains its exquisite flavor until nearly ripe. Pint, **15c.** Quart, **25c.** Peck, **$1.65.** Bushel, **$6.00.**

KENTUCKY WONDER, OR OLD HOMESTEAD.—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 or 10 inches in length, nearly round when young, and very crisp. Pint, **20c.** Quart, **30c.** Peck, **$1.85.** Bushel, **$7.00.**

SPECKLED HORTICULTURAL, OR WREN'S EGG.—An old favorite for both snap-shorts and dry beans. Pint, **15c.** Quart, **25c.** Peck, **$1.50.** Bushel, **$5.50.**

WHITE CHERRY.—Great favorite. Pint, **15c.** Quart, **25c.** Peck, **$1.50.** Bushel, **$5.50.**

CREASE-BACK, OR FAT HORSE.—A well-known and highly esteemed Southern variety. Very productive; forms full, round pods; fleshy; stringless and distinctly creased along its back; hence its name; especially valuable for its extreme earliness and habit of perfecting all pods at the same time. Pint, **15c.** Quart, **25c.** Peck, **$1.50.** Bushel, **$5.25.**

SOUTHERN PROLIFIC.—A splendid, vigorous and productive variety. Pods in clusters, succulent and delicious; matures early; continues bearing until frost. Pt., **15c.** Qt., **25c.** Pk., **$1.50.** Bus., **$5.50.**

SPECKLED CUT-SHORT, OR CORN-HILL.—An old variety, very popular for planting among corn, and will give a good crop, without the use of poles; vines medium, with dark-colored, smooth leaves; pods short, cylindrical and tender. Pint, **15c.** Quart, **25c.** Peck, **$1.50.** Bushel, **$5.50.**

DUTCH CASE KNIFE.—Vines moderately vigorous, climbing well; may be used for a corn-hill bean. Leaves large, crumpled; blossoms white; pods long, flat, irregular, green, but becoming cream white; beans broad, kidney-shaped, flat, clear white; of excellent quality, green or dry. Pint, **15c.** Quart, **25c.** Peck, **$1.50.** Bushel, **$5.50.**

When Beans are to be sent by mail, add for postage 8c. per pint, 15c. per quart.

Market Gardeners Write for Special Prices in Large Quantities.

BEETS.

One ounce of Seed will sow one hundred feet of drill.

SELECT a deep, rich, sandy loam, and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring: for autumn use, about the middle of May, and for winter use, during June or July according to the variety—the long varieties requiring more time to mature than the round, early kinds.

G. & T. Co.'s Early Blood Turnip Beets

THIS is our **Special Stock** of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark red color, handsome shape and early. **Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 50c.**

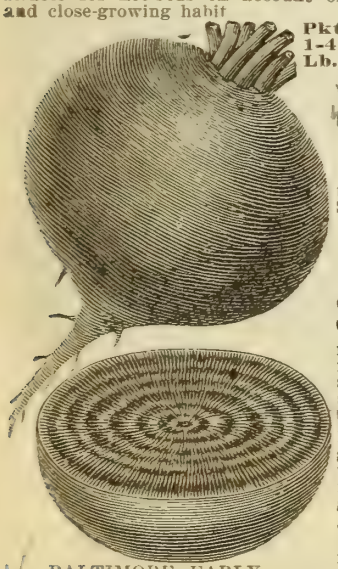
SWISS CHARD.—Oz., 10c. Lb., 40c.

BASSANO, OR EXTRA EARLY TURNIP.—Flesh white and rose; very sweet and tender. **Pkt., 5c, Oz., 10c. ¼ lb., 15c. ½ lb., 20c. Lb. 35c.**

EXTRA EARLY EGYPTIAN.—This is a flat Beet, very early and deep red color. Owing to the small top, it can be planted very close. **Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 40c.**

LARGE LONG BLOOD.—A large and desirable late variety of deep red color. **Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 40c.**

BALTIMORE EARLY MARKET. Its qualities are extra early, dark red color, fineness of shape and small top. One of the most attractive varieties grown, and is specially desirable for hot-beds on account of its small top and close-growing habit. **Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 50c.**



BALTIMORE EARLY.

DETROIT DARK RED TURNIP BEET. THIS is one of the finest formed and handsomest colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early and produces more marketable specimens on the same acreage than any other variety. **Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 40c.**

EDMOND'S RED TURNIP. The most uniform of all Turnip Beets. It is of handsome round shape, good marketable size, and deep blood color. It has a small top, and may be planted close. **Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 40c.**

CROSBY'S IMPROVED EGYPTIAN BEET. A very superior strain of the well-known Egyptian, carefully selected, deep blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not quite so flat as the ordinary Egyptian, nor so round as the Eclipse. It may be sown outside as late as July. **Pkt., 5c. Oz., 10. 1-4 lb., 20c. Lb., 50c**

CROSBY'S IMPROVED EGYPTIAN.

ECLIPSE BEET.

This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape. As an early market sort it is unrivaled. It is, to a large extent, superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table. **Pkts., 5c. and 10c. 1-4 lb., 15c. Lb., 40c.**

BRUSSELS SPROUTS.

(German, Gruener Kopfkohl).

1 Oz. of Seed to 100 Yards of Row.

A CLASS of plants allied to the Cabbage family, producing a great number of small heads for sprouts on the main stem of the plant, which are used and prepared as greens. It is a delicious vegetable, especially after being exposed to the frost. Plant in rich soil, in hills 2 feet apart each way. **Pkt., 10c. Oz., 20c, 1-4 lb., 50c. Lb., $1.75.**

BROCCOLI.

(German, Spargel Kohl).

1 oz. of Seed to 100 Yards of Row.

The Broccoli are closely allied to the Cauliflower family. They require similar cultivation and treatment to Cauliflower.

EARLY PURPLE CAPE.—Large, compact. **Pkt., 10c. Oz., 40c.**

LARGE EARLY WHITE.—Head white, like Cauliflower; the best. **Pkt., 10c. Oz., 40c.**

BORECOLE.

This if often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit, and beautifully curled. Seed very scarce. **Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 25c. Lb., 75.**

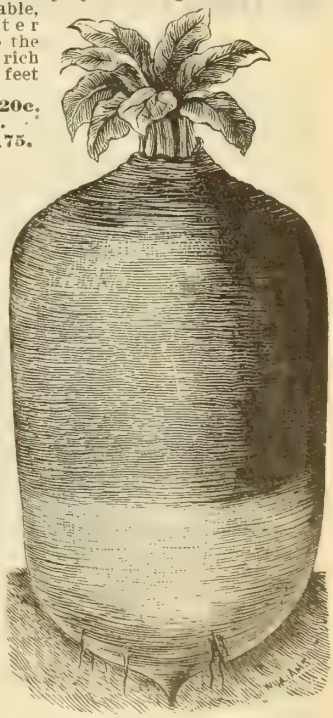
BEETS FOR STOCK.

SOW 4 POUNDS TO THE ACRE.

STOCK BEETS grow larger than other Beets, and hence require more room. They should be sown from April to June, in drills 2½ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased, but it should be grown more generally and will show the results in the health and condition of the stock. It supplies good, rich food for cattle during the winter.

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGOLD.—One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever grown. The crop is very uniform and the roots heavy, handsome and clean, with single tap root. In flavor they are wonderfully rich and nutritious. With good cultivation will crop at the rate of 200 bushels per acre. **1-4 lb., 10c. Lb., 25c. 5 lbs., $1.00.**

WHITE SUGAR BEET.—A large growing sort, and used for feeding stock. **1-4 lb., 10c. Lb., 25c. 5 lbs., $1.00.**



GOLDEN TANKARD MANGOLD.

GOLDEN TANKARD MANGOLD.—The best type of Mangold small top, smooth, rich skin, broad shoulders, very solid-fleshed, golden-stemmed, heavy producer. It has already taken the lead of other varieties in England, and is relished by milch cows and sheep. **1-4 lb., 10c. Lb., 25c. 5 lbs., $1.00.**

LONG RED MANGOLD WURZEL.—The well-known, large, long variety; grows well out of ground. Color light red. Very productive. **1-4 lb., 10c. Lb., 25c. 5 lbs., $1.00.**

ONE OUNCE OF SEED TO 100 YARDS OF ROW.

CABBAGE.

German, Kopfkohl.

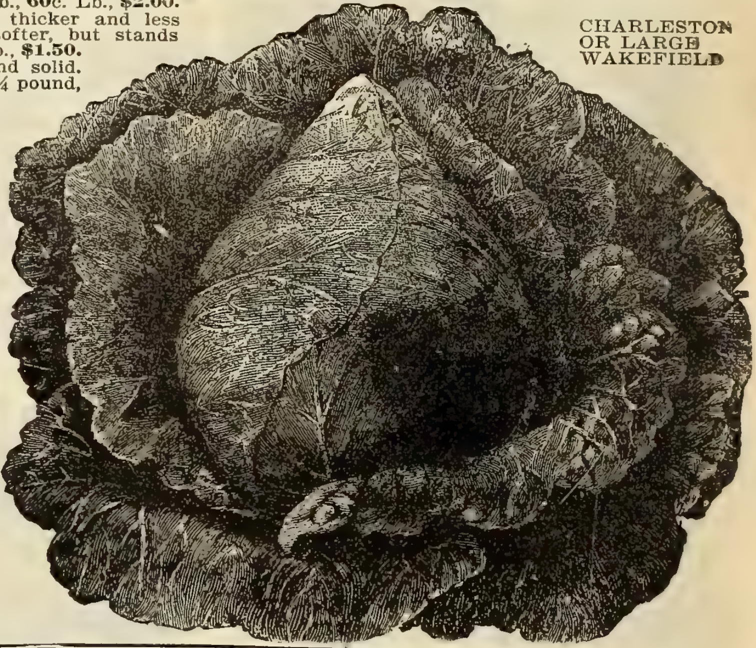
CABBAGE must have good land; plow deep and fertilize liberally, as it is a strong feeder. The early sorts bear planting from 18 inches to 2 feet in the rows; the larger varieties from 2 to 3 feet in the rows, with the rows from 3 to 3½ feet apart, according to variety of Cabbage. It does not pay to buy cheap Cabbage Seed. Ours are American grown, and from the best stock in the country. For early use, sow in a hot-bed in February or March, and set out to a cold-frame as soon as large enough. In April the plants may be set out in the rows. For late crop, sow in nursery bed in May or June, and transplant as soon as the plants are 5 or 6 inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.

KING OF EARLIES.—Our own introduction. American grown. An extra early variety, fully a week ahead of all other varieties in forming marketable heads; the heads are tall and slim and of rather small size, formed like a Wakefield. Habit, vigorous; short stem and proof against sun. Pkts., **5**c. and **10**c. Oz., **20**c. ¼ lb., **60**c. Lb., **$2.00**.

EXTRA EARLY EXPRESS.—Heads are comparatively thicker and less pointed than Jersey Wakefield and slightly later. Head softer, but stands shipping better. Pkts., **5**c. and **10**c. Oz., **15**c. ¼ lb., **40**c. Lb., **$1.50**.

EARLY WINNINGSTADT.—Head large, cone-shaped and solid. An old and popular sort. Pkts., **5**c. and **10**c. Ounce, **15**c. ¼ pound, **40**c. Pound, **$1.50**.

ALL HEAD.



CHARLESTON OR LARGE WAKEFIELD

All-Head Early Cabbage.

American Grown.

This is the largest of all Cabbages, fully one-third larger than the Early Summer, therefore more profitable to the market gardener. It is the nearest approach to a thoroughbred Cabbage of any variety, both in size and uniform development. As the All-Head comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter cabbage. Packets, **5**c. and **10**c. Ounce, **20**c. ¼ pound, **60**c. Pound, **$2.00**.

Select Early Jersey Wakefield.

American Grown.

The very best early cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and, having but few outside leaves, the plants can be set close together. We secured our seed from a grower of the best Wakefield Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year. The demand for this sort has brought on the market inferior stock at a low price, but when select stock, such as we offer, is used, it cannot fail to give satisfaction. Packets, **5**c. and **10**c. Ounce, **20**c. ¼ pound, **60**c. Pound, **$2.00**.

LARGE EARLY YORK—American Grown.—One of the earliest. Forms a medium size, pointed head. Packets, **5**c. and **10**c. Ounce, **15**c. ¼ pound, **35**c. Pound, **$1.25**.

SELECT EARLY JERSEY WAKEFIELD.

EARLY SUMMER.

Charleston, or Large Wakefield.

American Grown.

This is now a very popular market cabbage, fully meeting the demand for a cabbage having all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger, and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows. One great advantage is, it does not burst open when ripe, like many other early sorts, and consequently can be left standing on the ground a long while without injury, until a favorable opportunity for cutting. No market or private gardener desiring a cabbage of this kind should fail to plant this valuable sort. Packets, **5**c. and **10**c. Ounce, **25**c. ¼ pound, **65**c. Pound, **$2.25**.

Early Dwarf Flat Dutch.

American Grown.

An old standard variety which stands the sun and produces fine large heads, coming in soon after the Wakefield. Packets, **5**c. and **10**c. Ounce, **15**c. ¼ pound, **40**c. Pound, **$1.50**.

Henderson's Early Spring.

An extra early round-headed cabbage of the early summer type. Packet, **10**c. Ounce, **25**c. ¼ pound, **75**c. Pound, **$2.50**.

LARGE EARLY SUMMER.
American Grown.

One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about ten days later than the Wakefield. It is very popular with the truckers. Packets, **5**c. and **10**c. Ounce, **20**c. ¼ pound, **50**c. Pound, **$1.75**.

CABBAGE—Continued.

New Early Cabbage.

NEW EARLY.—Am. grown. This is one of the finest large early cabbages grown. Forms solid, compact heads, and leaves grow close to the head, thus allowing many more cabbages to be grown on the acre than any other sort. One of its most striking features is its earliness. It heads so rapidly that the worms can't hurt it.

Pkts. 5c. and **10c.** Oz. **20c.** ¼ Lb. **60c.** Lb. **$2.00.**

LOUISVILLE DRUMHEAD.—Am. grown. This is the most popular intermediate or second early with market gardeners around Louisville and the Southwest. It comes off medium early, withstands heat to a remarkable extent, heads large, solid and uniform in size and color. We can recommend this sort very highly for the Southern and Middle States.

Pkt. **10c.** Oz. **20c.** ¼ Lb. **50c.** Lb. **$1.75.**

SUREHEAD.—Am. grown. This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets.

Pkts. 5c. and **10c.** Oz. **20c.** ¼ Lb. **60c.** Lb. **$2.00.**

ALL SEASONS.—Am. grown. This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season.

Succession Cabbage.

Pkts. 5c. and **10c.** Oz. **20c.** ¼ Lb. **50c.** Lb. **$1.75.**

THE SUCCESSION CABBAGE.—Am. grown. Is one of the most valuable contributions to horticulture. It would be classed as a second early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. In addition to this, it has no tendency whatever to run to seed. It is one of the finest sorts in existence to-day; whether for medium early, main crop or late use, it has no superior. It is so finely bred and so true to type that in a field of twenty acres every head appears alike. We can recommend it either for the market gardener, trucker or private planter, as it is a perfect Cabbage in every respect, not only being of the largest size, but of handsome color and of the finest quality. It is probably the safest variety for an amateur to plant, as it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted.

Pkts. 5c. and **10c.** Oz. **20c.** ¼ Lb. **60c.** Lb. **$2.00.**

DANISH BALL HEAD CABBAGE.

DANISH BALL HEAD.—This most excellent variety of Cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in the Philadelphia, New York and Boston markets.

Pkt. **10c.** Oz. **25c.** ¼ Lb. **75c.** Lb. **$2,50.**

FOTTLER'S EARLY DRUMHEAD
OR SHORT STEM
BRUNSWICK CABBAGE.

In its improved type, this is a very fine summer or early fall variety. The plants are of dwarf, compact growth, the solid, flat heads resting on the soil, while the few outer leaves grow closely about the heads. The foliage is a light bluish green in color. The heads are very flat, quite thick through, uniformly "hard and solid," and considerably earlier than the ordinary *Flat Dutch* strains. Good both for intermediate and winter use.

Pkts. 5c. and **10c.** Oz. **20c.** ¼ Lb. **50c.** Per Lb. **$1.75.**

Boss Flat Dutch—Late Cabbage.

Premium Large Flat Dutch—Late Cabbage.

LATE OR AUTUMN CABBAGE.

BOSS FLAT DUTCH CABBAGE.—Am. grown. In again calling the attention of market gardeners and truckers to this magnificent Cabbage, we would say that it has fully met the claims we made for it upon its introduction. When we ask our customers how they like it, their answer is "splendid" or "elegant," everything heads; "you can scarcely find any that don't head." The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality.

Pkts. 5c. and **10c.** Oz. **20c.** ¼ Lb. **50c.** Lb. **$1.75.**

PREMIUM LARGE LATE FLAT DUTCH CABBAGE.—Am. grown. Large and excellent for winter, very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem.

Pkts. 5c. and **10c.** Oz. **15c.** ¼ Lb. **40c.** Lb. **$1.50.**

LATE CABBAGES—Continued.

LARGE LATE AMERICAN DRUMHEAD (American Grown).—One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality.
Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 40c. Lb., $1.25.

WORLD-BEATER, or AUTUMN KING.—This is a very superior late cabbage. The large, broad heads are very thick through, slightly rounded at the top, fine grained and tender, has a short stalk, green color, and one of the best keepers we know, and is a rapid grower.
Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 50c. Lb., $1.50.

RED DUTCH.—The head is large, round, solid and a deep red color, the best of the red cabbages.
Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 50c. Lb., $1.65.

Perfection Drumhead Savoy.

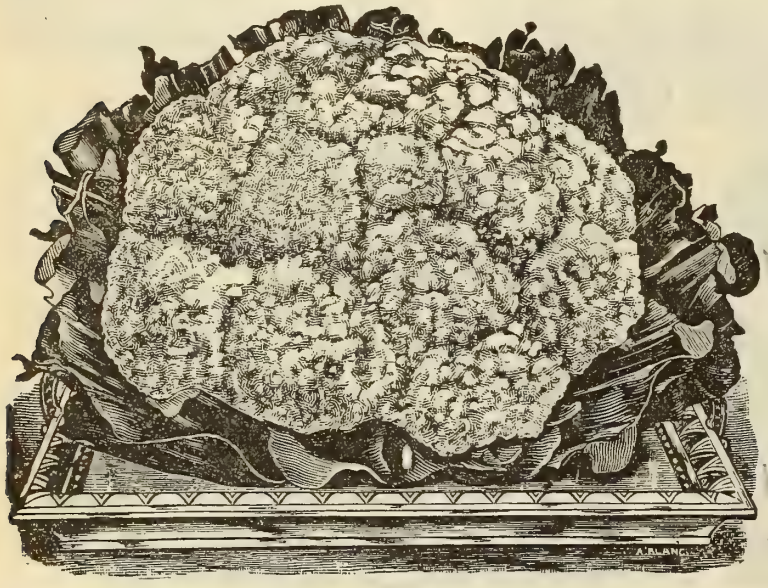
American Grown.

This is without any exception the finest stock of Savoy cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first-class. To say that our market gardeners are pleased with it, is putting it mild; they are enthusiastic over it, as they find it so much superior to the old-time Savoy. It is specially adapted to private use, as when grown in the fall and allowed to be touched by frost, it is one of the most delicious of all vegetables.
Pkts., 5c. and 10c. Oz., 15c., 1-4 lb., 40c. Lb., $1.50.

Georgia Collards.—Called the Cabbage Collard on account of its close bunching growth. The plant produces centre leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the first quality.
Packets, 10c. 1-4 lb., 20c. Lb., 60c.

DRUMHEAD SAVOY.

G. & T. Co.'s Snowball Cauliflower



One Ounce of Seed will produce 2,000 Plants.

MANY amateurs make the mistake of sowing the seed too early for late crop. It should not be sown before May, as when sown earlier they begin to head before the hot weather is over, and are a failure. Cauliflower can only be grown on rich, well-tilled and well-watered soil. The most delicious of all the cabbage family, and requiring the same culture and treatment, but being more delicate. The good culture and richness of the soil recommended for cabbage is absolutely necessary for the cauliflower. For early crop, sow in hot-bed or cold-frame in February or March. For late crop sow and treat like late cabbage.

Our Gilt Edge Snowball Cauliflower.—Is without exception one of the finest sorts now in cultivation. It is very early. Nearly every plant will, under proper cultivation, form a perfect snow white head, and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. In fact, it is, and deserves to be, the standard with the market gardener and amateur.
Pkts., 25c. and 50c. 1-4 oz., 75c. Oz., $2.00.

SELECT EARLY DWARF ERFURT.—Long the standard of highest excellence, and still holding its own with a great many people.
Pkts., 25c. and 50c. 1-4 oz., 50c. Oz., $1.75.

EARLY PARIS.—An excellent sort for early or late use. **Pkt., 10c. Oz., 50c.**

CORN SALAD.

Three ounces of seed to 100 feet of row.

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach.
Pkt., 5c. ¼ lb., 15c. Lb., 35c. 5 lbs., $1.50.

CRESS, OR PEPPER GRASS

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

CURLED.—Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 50c.

WATER CRESS.—Water Cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets.
Pkt., 10c. Oz., 30c. 1-4 lb., $1.00. Lb., $3.25

G. & T. CO.'S CARROTS.

1 OZ. OF SEED TO 100 FEET OF ROW.

CARROTS thrive best in rather a light, rich loam. The ground should be well manured with fine well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.

Improved Long Orange.

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color. **Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 60c.**

IMPROVED LONG ORANGE.

Danvers.

—A decided acquisition of the half-long type, broad-shouldered, cylindrical, admirable in color, fixed in habit, a wonderful producer. It is a first-class Carrot for all soils.
Pkt., 5c. Oz., 10c. 1-4 lb., 25c. Lb., 75c.

DANVERS.

GUERANDE, OR OX HEART.

A new French variety, intermediate in length, of fine quality; excellent table sort. The shape is nearly oval, and the color and quality all that can be desired. No market gardener should be without it.

Pkts., 5c. and 10c.
1-4 lb., 25c
Lb., 75c.

GUERANDE, OR OX HEART.

EARLY SCARLET HORN.—Blunt-rooted, early, good. Favorite sort for early crop.
Pkt., 5c. Oz., 10c. 1-4 lb., 25c. Lb., 75c.

CHANTENAY.

Very productive; has an extra large shoulder, is easily dug, and is in every way desirable. It is very smooth, fine in texture, and of a beautiful, rich orange color. Well worthy of a thorough trial.
Pkt., 5c. Oz., 10c. 1-4 lb., 25c. Lb., 75c.

CHANTENAY.

WHITE SOLID.

A large standard sort. One of the best of the large growing sorts.
Pkts., 5c. and 10c. Oz., 15c.
1-4 lb., 40c. Lb., $1.50.

NEW ROSE.

In England the Pink or Red Celeries are much more largely used than the white varieties, and we wonder they are not more grown in this country. They possess many advantages over the white, being hardier, more solid and better keepers.
Pkt., 10c. Oz., 15c.
1-4 lb., 40c. Lb., $1.50.

CELERY SEED FOR FLAVORING.

This seed is used for flavoring pickles, soups, etc.
Pkt., 5c. 1-4 lb., 10c.
1-2 lb., 15c. Lb., 25c.

CELERY. German Celerie.

1 OZ. WILL PRODUCE 2,000 PLANTS.

PARIS GOLDEN CELERY. (French Stock).

THIS cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery. No variety can surpass, if, indeed, equal the Paris Golden Self-Blanching in its striking appearance and delicious flavor. Our stock of this variety has been giving the market gardeners the very best results for several years.
Pkts., 5c. and 10c. Oz., 40c.
1-4 lb., $1.25. Lb., $4.00.

GOLDEN SELF-BLANCHING CELERY. (American Stock).

This is a selection from the French stock grown here, and is a favorite sort with market gardeners, being very largely used.
Pkts., 5c. and 10c. Oz., 30c.
1-4 lb., 90c. Lb., $3.00.

ROSE-RIBBED PARIS SELF-BLANCHING.

This is a sport of the Golden Self-Blanching, identical in habit, growth, early maturity, and as easily blanched. The stalks, however, are naturally quite heavily tinted with red, so that when blanched they show a distinct pink line in the ribs, contrasting finely with the rich golden yellow.
Pkt., 10c. Oz., 30c. 1-4 lb., 85c. Lb. $3.00.

IMPROVED BOSTON MARKET.

This is a decided improvement on the old Boston Market, being earlier, larger in size, and of more vigorous growth.
Pkts., 5c. and 10c. Oz., 15c.
1-4 Lb., 40c. Lb., $1.50.

PARIS GOLDEN CELERY.

CELERY.

CONTINUED.

German, **Celerie.**

1 Oz. Will Produce 2000 Plants.

PLANT SEED in hot-bed or very early in open ground. Transplant 4 inches apart when 3 inches high, in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the centre shoots.

WINTER QUEEN CELERY.

It is, without doubt, the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious nutty flavor.

Pkt., 10c. Oz., 15c. 1/4 Lb., 40c. Lb., $1.50.

PINK PLUME.

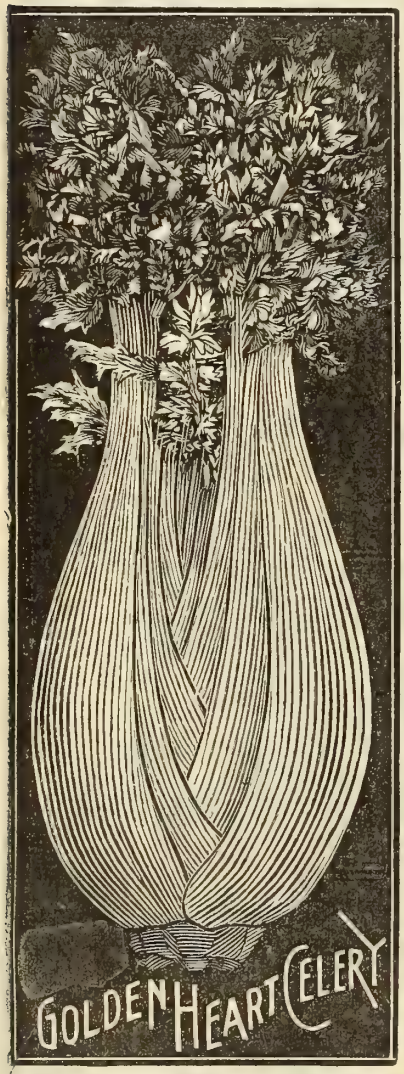
This is identical with the White Plume, but with the added merit of the stalks being exquisitely suffused with pink, and possessing the crispness, rich, nutty flavor and long-keeping qualities for which red Celeries are noted.

Pkt., 10c.
Oz., 20c.
1/4 Lb., 50c.

PERLE LE GRAND.

The new Perle le Grand has a beautiful, full golden heart, and rich, nutty flavor. On the market stall it is extremely showy and salable, a single plant making a good-sized bunch and surpassing all other sorts in weight. It is not only a good early Celery, being among the first fit to use, but as a winter keeper, remaining, when properly trenched, in perfect condition away into the spring.

Pkt., 10c. Oz., 20c. 1/4 Lb., 50c. Lb., $1.50.

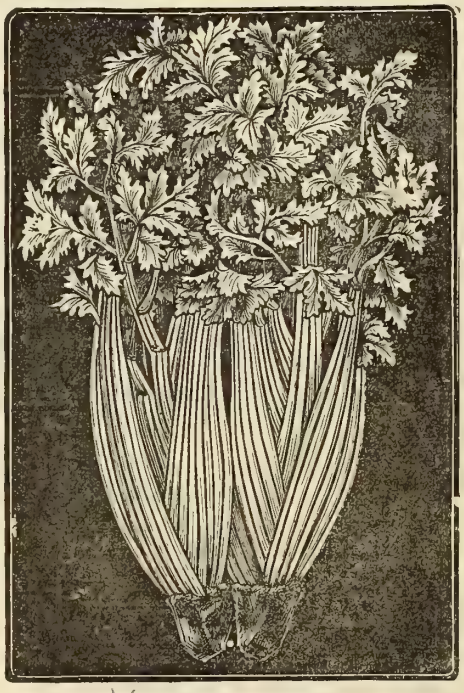


GOLDEN HEART, OR GOLDEN DWARF CELERY.

THIS old standard variety still holds a high place in the estimation of market gardeners, and is largely used, always giving satisfaction. A showy sort, solid, of fine flavor and a good keeper.

Pkts., 5c. and 10c.

Oz., 15c. 1/4 Lb., 40c. Lb., $1.25.



WHITE PLUME.

AN EARLY, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed.

Pkts., 5c. and 10c.

Oz., 20c. 1/4 Lb., 50c. Lb., $1.75.

CELERIAC,

OR TURNIP ROOTED CELERY.

NEW APPLE SHAPE.

Small foliage, large, round, and smooth.

Pkts., 5c. and 10c.

Oz., 15c.

1/4 Lb., 40c.

Lb., $1.25.

LARGE SMOOTH PRAGUE

LARGE SMOOTH PRAGUE.

The largest, smoothest and best of the Celeriacs. **Pkts., 5c. and 10c.**
Oz., 20c. 1/4 Lb., 40c. Lb., $1.50.

A SELECTION from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of fine, nutty flavor, being entirely free from any bitter taste. It grows about 2 feet high. The stalks are very broad, thick and crisp; the width and thickness of these are distinctive features of this variety.

Pkts., 5c. and 10c.

Oz., 15c. 1/4 Lb., 40c. Lb., $1.25.

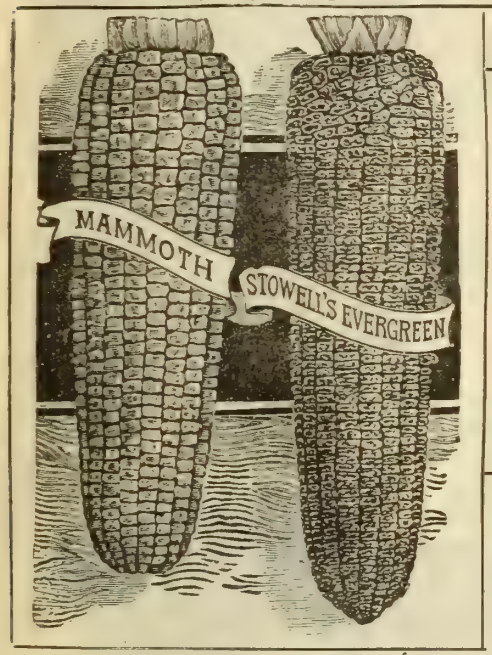
CAUTION. Sweet Corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and spread in a dry place.

SWEET OR SUGAR CORN.

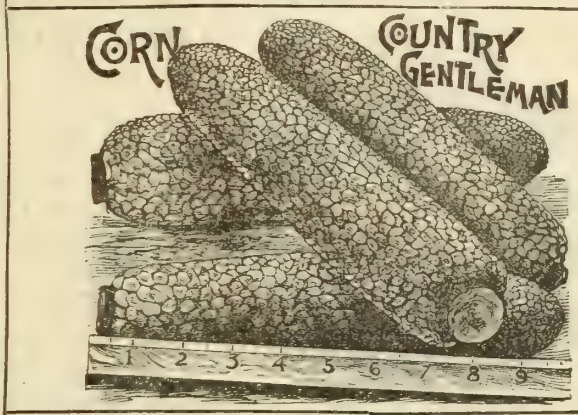
FOR TABLE USE. **GERMAN, WELSCHKORN.**

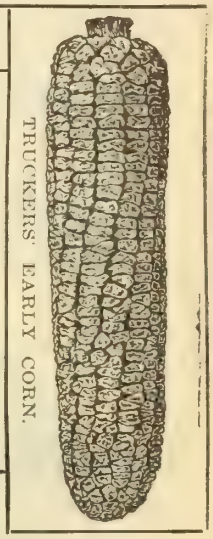
WHEN CORN IS WANTED BY MAIL, ADD 8 CENTS PER PINT TO PAY POSTAGE.

CULTURE.—Sugar Corn may be planted in rows 3 to 4 feet apart, and the seeds placed about 8 inches apart in the rows, or planted in hills 3 to 4 feet apart each way, according to variety grown or richness of soil. Do not let more than three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of crop. By planting every two weeks a family may have good corn throughout the whole season.



Owing to the great failure of crops generally in the seed-growing sections, all vegetable seed prices are subject to change without notice.





FIRST EARLY VARIETIES.

EXTRA EARLY BALTIMORE. The hardiest and earliest variety for table use; it can be planted earlier than any other, but is not a sweet corn; white indented grains and short ears. Ear, 5c. Doz., 50c. Qt., 25c. 2 qts., 45c. Peck, $1.25.

G. & T. CO.'S NEW 60-DAY CORN.—The largest extra early corn grown. As early as Extra Early Adams, but grows larger ears. Qt., 20c. 2 qts., 35c. Peck, $1.00.

EXTRA EARLY ADAMS.—Ear, 5c. Doz., 40c. Qt., 20c. 2 qts., 35c. Peck 90c.

EARLY ADAMS.—A favorite in the South. Ear, 5c. Doz., 40c. Qt., 20c. 2 qts., 35c. Peck, 90c.

EARLY BURLINGTON HYBRID.—Not a true sugar corn, but a hybrid or mixture between the sugar corn and the Adams Early, being as early as Adams, but having a larger ear. It closely resembles the sugar corn. Doz., 35c. Qt., 20c. 2 qts., 35c. Peck, 75c.

NINETY-DAY CORN (Red Cob).—This is an elegant corn for truckers and market gardeners, as it is a good seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop. Qt., 15c. 2 qts., 25c. Peck, 50c.

MEDIUM EARLY VARIETIES. SWEET OR SUGAR.

FIRST OF ALL.—A selection from the Cory, the ears about the same size as Cory, lighter in color and earlier. Qt., 40c. 2 qts., 75c. Peck, $2.50.

WHITE CORY.—An early variety, with good-sized ears and large kernels. Qt., 30c. 2 qts., 55c. Peck, $1.75.

STABLER'S EARLY.—Of larger size than usual for the early kinds. It is remarkable for the fine flavor and sweetness, and is a desirable gardeners' and canning variety. Pt., 15c. Qt., 30c. 2 qts., 55c. Peck, $1.75.

CROSBY'S EXTRA EARLY.—An early market variety, very productive; ears rather short and rich, sugary flavor. Qt., 30c. 2 qts., 55c. Peck, $1.75.

EARLY MINNESOTA SUGAR.—One of the first early among sugar corn. Qt., 25c. 2 qts., 45c. Peck, $1.50.

BLACK MEXICAN SUGAR.—The black corn is especially rich in sugary qualities. Qt., 25c. 2 qts., 45c. Peck, $1.50.

MAIN CROP VARIETIES.

IMPROVED NE PLUS ULTRA.—Early, good-sized ears and deep grain. Very productive, some stalks yielding four ears and an average crop running as high as three ears to the stalk. Qt., 45c. 2 qts., 80c. Peck, $2.50.

COUNTRY GENTLEMAN CORN.—This is the sweetest and most deliciously flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts. Qt., 45c. 2 qts., 80c. Peck, $2.50.

TRUCKERS' EARLY SUGAR CORN.—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen, very productive, growing two to four ears to the stalk. The ears set low, are large and well filled, the grain long and narrow, similar to Evergreen, but smaller. It is one of the most productive varieties in cultivation. Pt., 15c. Qt., 30c. 2 qts., 55c. Peck, $1.75.

STOWELL'S EVERGREEN.—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large. One of the best. Ear, 5c. Doz., 50c. Qt., 30c. 2 qts., 55c. Peck, $1.75.

EARLY MAMMOTH.—A splendid market sort, producing large handsome ears, grain large, white and sweet. Fills out well at the end. Ear, 5c. Doz., 50c. Qt., 30c. 2 qts., 55c. Peck, $1.75.

HICKOX.—A very handsome and excellent variety of sugar corn; large, white grain and sweet. Ear, 5c. Doz., 50c. Qt., 30c. 2 qts., 55c. Peck, $1.75.

LATE MAMMOTH.—The largest variety grown; very fine for market purposes. Ear, 5c. Doz., 50c. Qt., 45c. 2 qts., 80c. Peck, $2.50.

EGYPTIAN, OR WASHINGTON MARKET.—A large variety somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality; fine for market. Ear, 5c. Doz., 50c. Qt., 30c. 2 qts., 55c. Peck, $1.75.

ZIGZAG EVERGREEN.—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country Gentleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn. Pt., 15c. Qt., 30c. 2 qts., 55c. Peck, $1.75.

KENDALL'S EARLY GIANT.—The largest early sweet corn known, and is very productive. Pt., 15c. Qt., 30c. 2 qts., 55c. Peck, $1.75.

SUGAR CORN.—For fodder. **Write for Prices.**

1 Oz. will plant 50 hills; 2 Lbs. will plant an acre.

CUCUMBER.

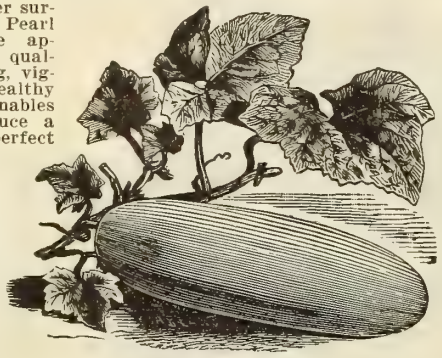
German, Gurke.

CULTURE.

FOR very early Cucumbers sow the first of April in a hot-bed, upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground, in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm, in hills 4 feet apart for the smaller varieties, and 5 feet for the larger sorts. For pickling, sow from middle of June to last of July. Manure with ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot, plaster of air-slacked lime, to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.

WHITE WONDER CUCUMBER.

The White Wonder surpasses the White Pearl both in handsome appearance and fine quality, while its strong, vigorous, extremely healthy habit of growth enables the vines to produce a large crop of perfect fruit, even under adverse conditions. Its strong constitution is exceptional. The Cucumbers are thickly set throughout the length of the vine, and are remarkably uniform in color, shape and size.



Pkt., 10c.

IMPROVED LONG GREEN

Has long been a favorite with growers; dark green, firm and crisp. Superior for pickles and for market.

Pkt., 5c. Oz., 20c 1-4 lb., 60c. Lb., $2.25

LONG GREEN TURKEY.

A very showy and excellent sort.

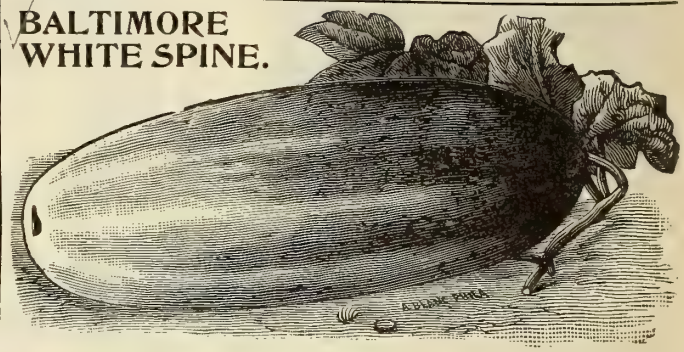
Pkt., 5c. Oz., 20c 1-4 lb., 60c. Lb., $2.25

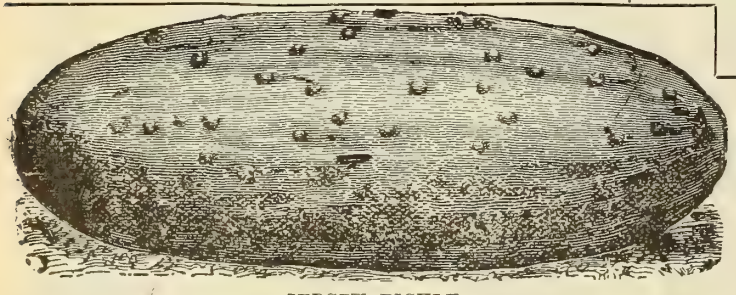
EVER-BEARING CUCUMBERS.

It is variety is unique, and will prove valuable both for the table and for pickling. Is of small size, very early, enormously productive, and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.

Pkt., 5 and 10c.

BALTIMORE WHITE SPINE.





JERSEY PICKLE.

JERSEY PICKLING.

This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to green better than any other variety.

Pkt., 5c. Oz., 20c. 1-4 lb., 60c. Lb., $2.25

CHICAGO PICKLING.

Very Popular With Chicago Market Gardeners, and Extensively Grown in that Vicinity.

Fruit medium length, pointed at each end, with very large and prominent spines; color deep green.

Pkt., 5c. Oz., 20c. 1-4 lb., 60c. Lb., $2.25.

GHERKIN, OR BURR.

Used for pickles only.

Pkt., 5c. Oz., 20c. 1-4 lb., 60c. Lb., $2.00.

THIS is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida.

Pkt., 5c. Oz., 20c. 1-4 lb., 75c. Lb., $2.50.

ARLINGTON WHITE SPINE.—A favorite extra early variety, of desirable size, handsome shape, dark green color, holding its color longer than most others. Good shipper and sells well.

Pkt., 5c. Oz., 20c. 1-4 lb., 60c. Lb., $2.25.

EARLY GREEN PROLIFIC.—A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and of fine quality when sliced for the table.

Pkt., 5c. Oz., 20c. 1-4 lb., 60c. Lb., $2.00.

EXTRA EARLY WHITE SPINE.

A strain of White Spine which has been improved through careful selection, with a view to use for forcing in hot-houses and frames; also elegant for field culture. Our stock produces handsome, dark-colored fruits, which retain their color longer than other sorts.

Pkt., 5c. Oz., 20c. 1-4 lb., 60c. Lb., $2.25.

COOL AND CRISP.

This is the earliest and one of the most prolific pickling Cucumbers. The Cucumbers are straight, long, even and slim, and of a dark color; it is very tender and crisp.

Pkt., 5c. Oz., 20c. 1-4 lb., 60c. Lb., $2.00.

EARLY CLUSTER.

A short, prickly variety, bearing in clusters near the root. A great bearer. **Pkt., 5c. Oz., 20c. 1-4 lb., 75c. Lb., $2.25.**

JAPANESE CLIMBING CUCUMBER.

It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight, from 12 to 16 inches in length; the Cucumbers are thick, tender, and of delicate flavor; flesh white, skin dark green, turning to brown and netted when ripe.

Pkt., 10c. Oz., 20c.

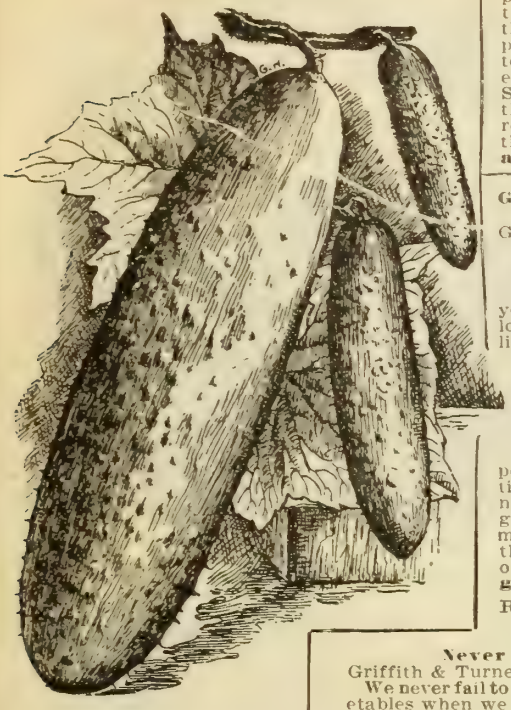
ENGLISH FORCING CUCUMBER.

Should be grown in hot-beds where the temperature does not fall below 65 degrees at night.

TELEGRAPH is the best. 25c. Packet.

CUCUMBER

CONTINUED.



Grow by Magic

Griffith & Turner Co.,
Baltimore, Md.

Please send me your large Catalogue. I always like to have one from which to select my season's seed. I have done this for the past several years. Your seeds give perfect satisfaction. Some of my neighbors say I grow things by magic, but I think the biggest part of the secret is **good seed.**

R. B. SHREVE,
Virginia.

Never Fail.

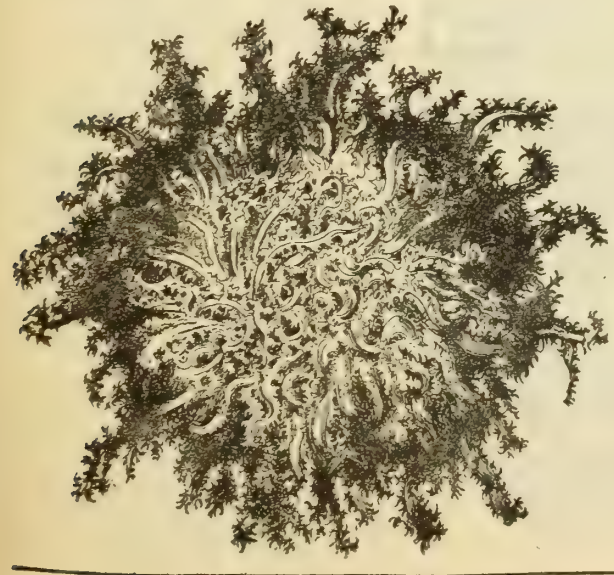
Griffith & Turner Co.
We never fail to have good vegetables when we order seed from you. Mrs. S. C. YINGLING.

CUMBERLAND.

A new and distinct variety, said to have originated from crossing the Parisian Pickling and the Early White Spine. It certainly has the good qualities of each of these sorts. The fruits are large, symmetrical, dark green, covered with innumerable small white spines, and are of prime quality for slicing. The vine is vigorous, wonderfully prolific, and continues in bearing much longer than most sorts. Packet, **5c.** Ounce, **20c.** ¼ pound, **75c.** Pound, **$2.50.**

Can Be Depended On.

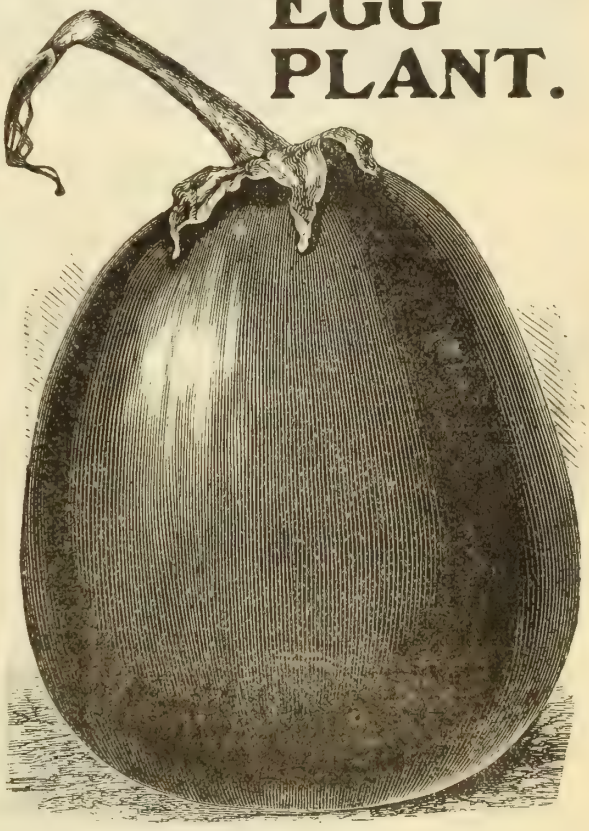
Griffith & Turner Co.
I can depend on your seeds in every condition of weather, and with half care they are O. K.
(Miss) IDA P. BEACH, Maryland.



German. # EGG PLANT. Eierpflanze.

CULTURE.—Sow the seed in hot-beds early in March. When three inches high, pot the young plants, using small pots, and plunge them in the same bed, so that the plants may become stocky. They can be planted out, from the pots, when the season becomes sufficiently warm, in May or June; or they can be transplanted into a second bed to make them strong, until the weather is warm enough to transplant, about three feet apart each way, in thoroughly worked and well enriched soil. Draw the earth up to the stems when about a foot high. Egg Plant Seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth, they seldom recover. Therefore repeated sowings are sometimes necessary. Care should be observed in cutting the fruit, so as not to disturb the roots of the plants. **One ounce will produce about 1,000 plants.**

BALTIMORE EGG PLANT.



This is decidedly the best and most profitable Egg Plant in cultivation. It is large, thornless, of beautiful shape and handsome purple color. We have never seen finer specimens of Egg Plant than those grown from our seed. When inspecting the field of Egg Plants growing for seed we were surprised at the regular size and uniform, handsome color of the fruit all over the field. Packet, **10c.**, Ounce, **30c.** ¼ pound, **90c.** Pound, **$3.00.**

German, # ENDIVE. Endivien.

IS ONE OF THE BEST SALADS FOR FALL AND WINTER USE.

One ounce of seed to 150 feet of row.

For early use, sow as soon as the ground can be worked in the spring, in drills fifteen inches apart, and thin plants to six or eight inches in the row. To blanch the leaves, gather them carefully together when perfectly dry, and tie with matting or soft fibrous material. Another method is to invert flower pots over the plant. The leaves are very highly esteemed for use as salads.

GREEN CURLED.—The best sort in use. Useful as a salad, and also used for garnishing. Packet, **5c.** Ounce, **15c.** ¼ pound, **40c.** Pound, **$1.25.**

Superior to Any.

Your seeds are superior to any anywhere.
February 7th. J. W. WILROY, Kentucky

1 Oz. of Seed Will Sow a Drill of About 200 Feet.

KALE. German, Blaetter-Kohl

THE KALES are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September, and protect during winter. It must also be sown in April or May for later use.

DWARF GREEN GERMAN KALE.—This variety sow in September broadcast, and gather in early spring like spinach. It may also be sown early in the spring for later use. **Pkt., 5c. 1/4 Lb., 15c. Lb., 30c.**

NORFOLK.

A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled.

Packet . . . . 5c.
Ounce . . . . 10c.
1/4 Lb. . . . 25c.
Lb. . . . . 75c.

DWARF GREEN GERMAN KALE.

EXTRA CURLED NEW AMERICAN KALE.

This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety. **Pkt., 5c. 1/4 Lb., 15c. Lb., 0c.**

KOHLRABI.

1 OZ. OF SEED TO 100 YARDS OF ROW.

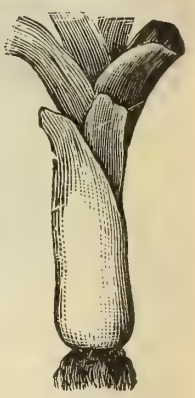
WHITE VIENNA.

BULB LIGHT GREEN.
FLESH WHITE.
VERY RAPID IN GROWTH.
EARLY MATURITY.
FINE IN TEXTURE, and
SYMMETRICAL IN FORM.
SUPERIOR.

Pkts., 5c. and 10c.
Oz., 20c. 1/4 Lb., 50c.
Lb., $1.75.

IMPROVED KOHLRABI.—Pkts., 5 and 10c. Oz., 15c. ¼ lb., 35c. ½ lb., 50c. Lb., $1.15.

LEEK. German, Lauch.



1 OZ. OF SEED TO 150 FEET OF ROW.

SELECT good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled as Asparagus.

EXTRA LARGE MAMMOTH.—A large and strong plant; hardy. The best variety for general culture. Pkt., 5c. Oz., 15c. ¼ lb., 30c. Lb., $1.00.

MUSSELBURGH.—Oz., 20c. ¼ lb., 35c. Lb., $1.25.

LARGE ROUEN.—Pkts., 5c. and 10c. Oz., 20c. 1/4 Lb., 40c. Lb., $1.25.

LETTUCE. German, Lattich.

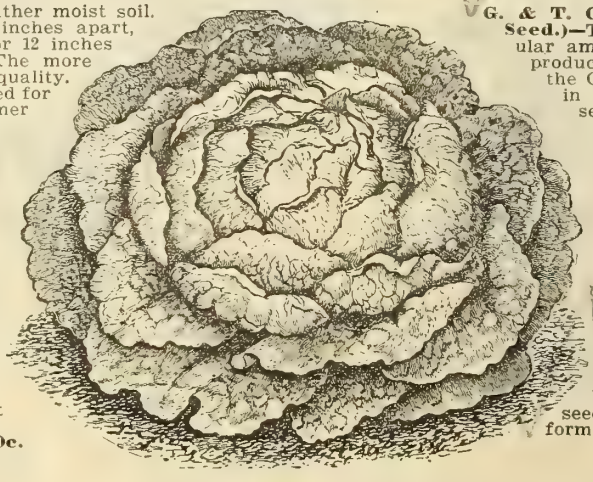
LETTUCE requires a rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid the growth the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

G. & T. CO.'S WHITE SEED SUMMER LETTUCE.

The Best Summer Lettuce Ever Introduced.

This variety, introduced by us two years ago, has exceeded our expectation. Those who purchased it were delighted with their crops and came back for more seed. This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. We expect this sort to grow in favor wherever known. It has a beautiful green color; head solid; light; leaves nicely crinkled; very tender and of most excellent flavor.

Pkt., 5c. Oz., 20c. 1/4 Lb., 50c. Lb., $1.50.



G. & T. CO.'S SUMMER LETTUCE (Black Seed.)—This Lettuce is becoming very popular among gardeners for summer use. It produces a splendid, large, solid head, of the Cabbage type, remaining a long time in prime condition without going to seed; in fact, it is often necessary for the seed growers to slit open the head in order to allow the seed stalk a chance to develop. It is of a light green color, fine quality, crisp, tender, and nearly every plant will make a fine, solid head in the hottest weather, when other varieties refuse even to grow.

Pkts., 5c. and 10c. Oz., 15c. 1/4 Lb., 40c. Lb., $1.25.

EARLY WHITE CABBAGE, OR BUTTER.—A broad-leaved, vigorous-heading sort; white, showy and desirable. **Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., $1.00.**

EARLY CURLED SIMPSON.—Black seed. Very early; excellent for salads; forms a compact mass of leaves.

Pkts., 5c. and 10c. Oz., 15c. 1/4 Lb., 30c. Lb., $1.00.

TENNIS BALL.—Black seed. A favorite forcing variety; a very hard head. **Pkts., 5c. and 10c. Oz., 15c. 1/4 Lb., 30c. Lb., $1.**

LETTUCE-Continued

BIG BOSTON.

BIG BOSTON.

The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it.

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 40c. Lb., $1.25.

MAMMOTH BLACK SEEDED BUTTER LETTUCE.

A strain of large, smooth leaved, head lettuce, forming very large, solid cabbage-like heads of thick, brittle leaves; the inner ones becoming very white, tender and fine flavored.

Pkt., 5c. and 10c. Oz., 15c. 1-4 lb., 40 c. Lb., $1.25.

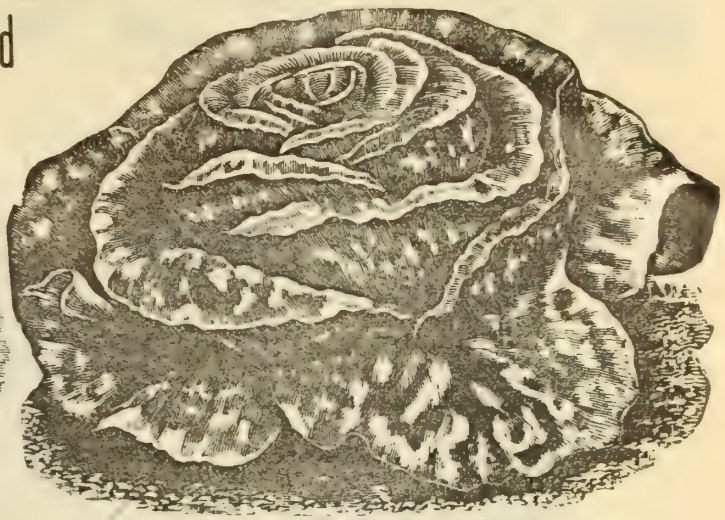
PARIS WHITE COS.—Differs entirely in shape from the other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green. It is very hardy and of good flavor. To blanch perfectly it must be tied up.

Pkt., 5c. Oz., 15c. 1-4 lb., 30c. Lb., $1.00.

BIG HEAD LETTUCE.

The "Big Head" is certain to please market gardeners and truckers, because it always produces large, salable heads. It is very solid and crisp, of tender quality, which makes it attractive.

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 40c. Lb., $1.25.



BALTIMORE CABBAGE LETTUCE.

Baltimore Cabbage Lettuce

G. & T. CO.'S TRUE STOCK.

Large Heads, Beautiful Heads, Solid Heads, Stands Heat Well. Best of all for FALL PLANTING.

THIS new Lettuce, which we introduced a few years ago, and claimed to be one of the best ever put on the market, and which produced such a sensation among the large growers who tried it, still holds a high place among Lettuce. As soon as the growers discovered its merits they came for more seed, and recommended it to all their friends; these, in turn, were delighted with their crops, as the result more than justified all we claimed for it. A grower at Gardenville, Md., says: "I had 3,000 heads of your Baltimore Cabbage Lettuce, and they all headed but one; they are slow to run to seed." The heads are large and solid; color, pretty light green, and very slow to seed; in fact, it is just what the truckers and gardeners want. A large trucker in New Jersey writes: "The Baltimore Cabbage Lettuce I had of you was certainly very fine."

Pkts., 5c. and 10c. Oz., 20c. 1-4 lb., 50c. Lb., $1.50.

BALTIMORE OAK LEAF.—This lettuce will resist the heat of summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it.

Pkt., 10c. Oz., 20c. 1-4 lb., 50c. Lb., $1.50.

IMPROVED NEW YORK, or "WONDERFUL."

Plants of extra large growth, producing heads of immense size under favorable conditions. Inner portion is beautifully blanched, and stands for a considerable time before running to seed. Outer leaves a deep, rich green.

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 30c. Lb., $1.00.

CREAM BUTTER LETTUCE. (Black Seed).

This is fairly well known, and has given good results with the growers.

Pkt., 5c. Oz., 15c. 1-4 lb., 40c. Lb., $1.25.

HANSON.—A variation of the Indiana, forming a half-closed head.

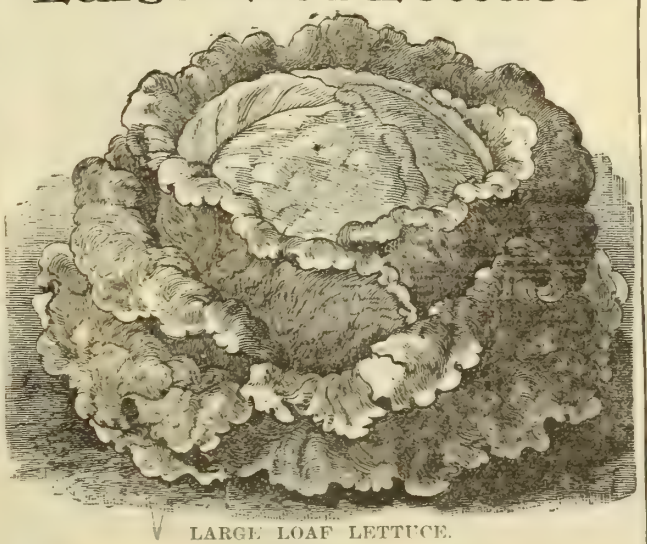
Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 30c. Lb., $1.00.

SALAMANDER (Black Seed).

An excellent sort for spring or summer use; forms good-sized heads of excellent quality.

Pkt., 5c. Oz., 10c. 1-4 lb., 30c. Lb., $1.00.

Large Loaf Lettuce



LARGE LOAF LETTUCE.

THIS is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor Lettuce for fall or early spring

Pkt., 5c. Oz., 10c. 1-4 lb., 30c. Lb., $1.00.

BOSTON MARKET.

White seed. A celebrated variety in New England, of good heading habit; small, early and compact; quite desirable.

Pkts., 5c. and 10c. Oz., 15c. 1-4 lb., 40c. Lb., $1.25.

GRAND RAPIDS.—This variety is largely grown for shipment, and is considered by many the best loose-headed Lettuce for forcing under glass. Leaves medium size, of light, yellowish-green color, much crimpled and frilled, thin, but of very upright growth; crisp, tender and of good quality. Owing to its upright habit, it may be planted very closely. It is of extremely rapid growth; very little liable to rot; will stand without spoiling a week to ten days after it is fit to cut, and retains its freshness a long time after cutting.

Pkt., 5c. Oz., 10c. 1-4 lb., 30c. Lb., $1.00.

DEFIANCE.

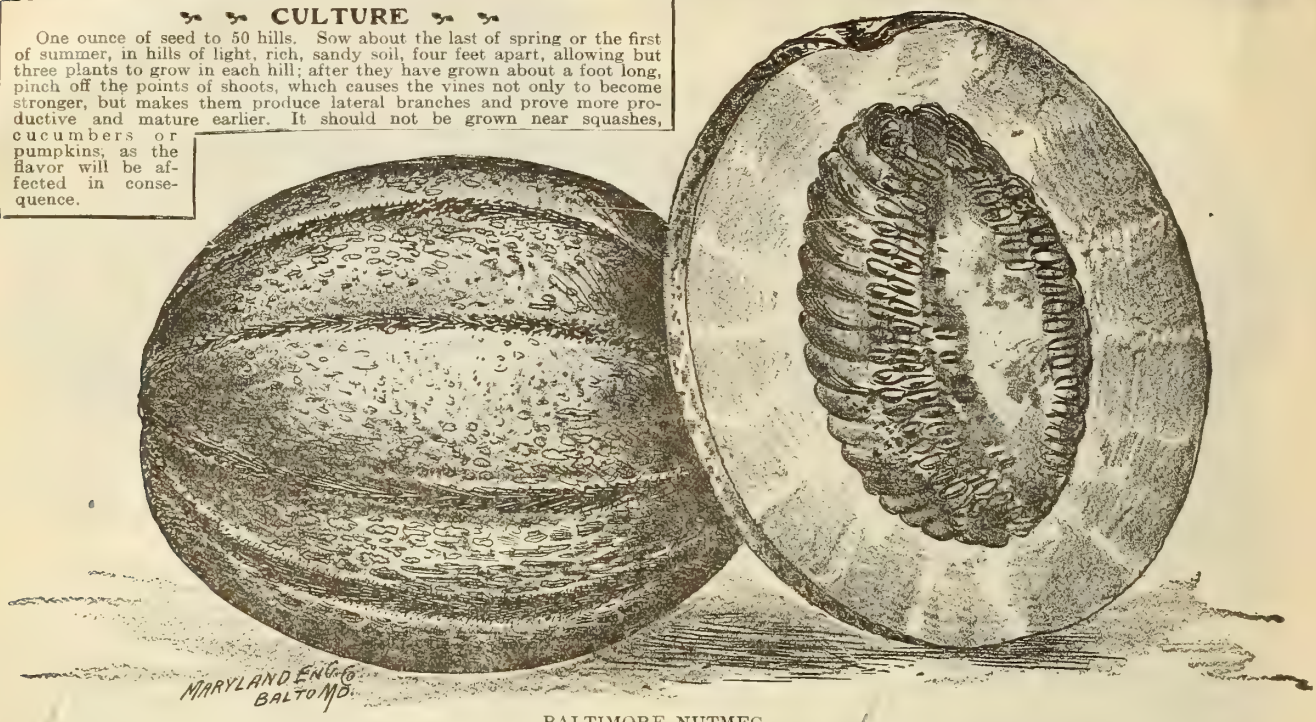
Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm, they have to be cut open to allow the flower heads to come through.

Pkt., 5c. Oz., 10c. 1-4 lb., 30c. Lb., $1.00.

MUSK-MELON. German, Melone.

CULTURE

One ounce of seed to 50 hills. Sow about the last of spring or the first of summer, in hills of light, rich, sandy soil, four feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence.



BALTIMORE NUTMEG.

Baltimore Nutmeg Cantaloupe.

THE cut is from a photograph taken from a sample lot of BALTIMORE NUTMEG CANTALOUPES gathered from the field where our seed was grown, and is a fair representation of the whole crop. The stock seed of this splendid melon was secured from a trucker who enjoys the reputation for raising the finest Cantaloupes that come to the Baltimore market. The writer also tested the fruit, and found it to be of excellent flavor. It is green-fleshed, and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore, Washington, Norfolk and other places; in fact, it is a leading sort all over the country.

Pkt., 5c. Oz., 10c. ¼ Lb., 35c. Lb., $1.00.

EMERALD GEM.

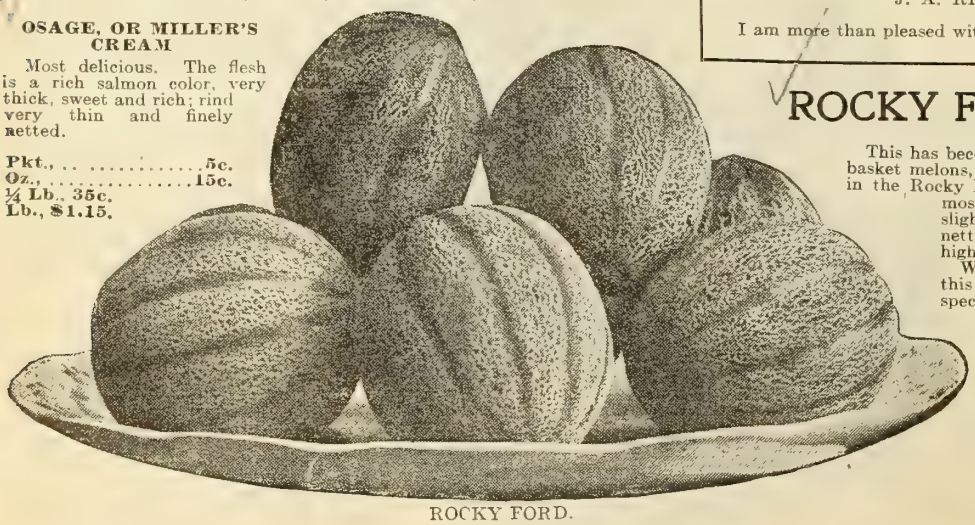
Meat salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again.

Pkt., 5c. Oz., 25c. ¼ Lb., 60c. Lb., $2.25.

OSAGE, OR MILLER'S CREAM

Most delicious. The flesh is a rich salmon color, very thick, sweet and rich; rind very thin and finely netted.

Pkt., ...5c.
Oz., ...15c.
¼ Lb., 35c.
Lb., $1.15.



ROCKY FORD.

EARLY NETTED GEM.

EXTENSIVELY grown, and many prefer it to all others for table use. Grows remarkably uniform; thick meated; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and extra early in ripening; will keep for nearly a week after picking, and is especially suited for shipping in baskets or crates.

Pkts., 5c. and 10c. ¼ Lb., 30c. Lb., $1.00.

IMPROVED JENNY LIND.

A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. A market gardener having this sort for sale would in a short time have no difficulty in disposing of all he could raise.

Pkt., 5c. Oz., 10c. ¼ Lb., 35c. Lb., $1.00.

TRUE TO NAME.

The ROCKY FORD I got of you last year was excellent and every hill proved true to name.
J. A. RICHARDSON, Smithsburg, Md.

I am more than pleased with your seed.
N. E. MILLER, Virginia.

ROCKY FORD MELON.

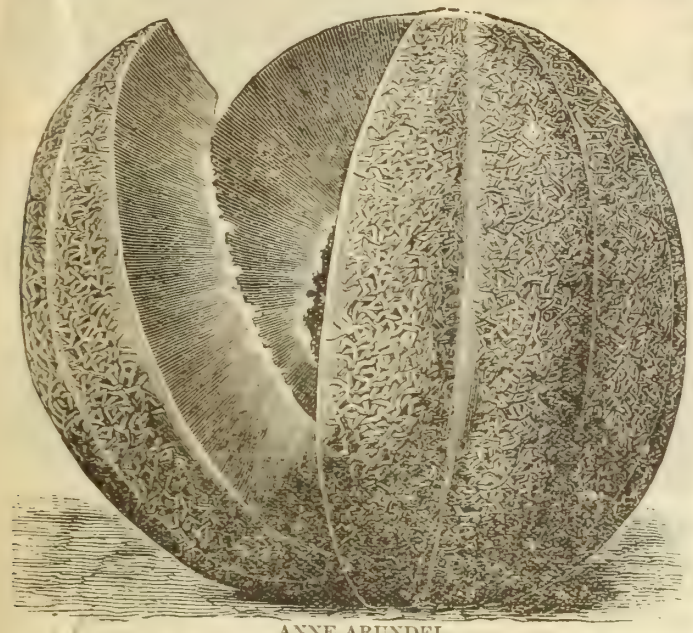
This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the Rocky Ford region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high-flavored.

We have an exceptionally fine stock of this variety grown from choice selected specimens.

Pkt., 5c. Oz., 10c. ¼ Lb., 30c. Lb., $1.00.

All Prices Subject to Change Without Notice.

MUSK MELONS==Continued



ANNE ARUNDEL.

Anne Arundel Cantaloupe

(Original Stock).

The cut represents a sample of our stock photographed from fruit taken from the growing seed crop. It is very large, nearly round, deeply netted, and of good flavor. A wagonload of them at once attracts the buyers' attention, and when piled up on a market stall they are irresistible. No large grower's stock is complete without this superb melon.

This handsome melon, introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel County, Maryland. This county is justly celebrated as growing the finest Cantaloupes in the country. We might almost say, the finest in the world. Knowing its value, we selected the stock and placed it before our customers. It has met every promise we made for it upon its introduction.

One grower says: "It is in all respects one of the best of melons."

Another says:

"Portsmouth, Va.

"Dear Sirs—The Anne Arundel Cantaloupe was perfectly satisfactory—just what it is claimed to be. It proved to be early, of good size, and gave me a large yield."

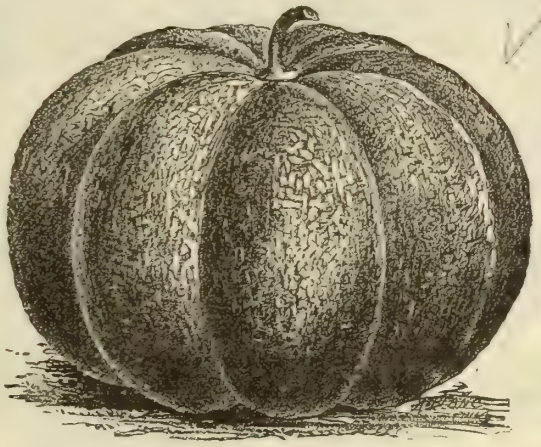
Pkt., 5c. Oz., 15c.
1/4 lb., 35c. Lb., $1.00.

Paul Rose

PAUL ROSE.

This variety originated with one of the most successful melon growers in the country, who reports that when planted for market the fruit has brought him nearly twice as much per acre as he realized from any other sort. In this new sort are combined all the good qualities of the Netted Gem and the Osage, the varieties from which it originated. The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem of Rocky Ford. The firm flesh is a rich orange red color, like that of the Osage, but even sweeter and higher flavored, retaining its good qualities quite to the rind. We have found the fruit the most uniformly good of any musk melon we have ever grown, every one of the hundreds tested being sweet and rich flavored. It is rare that a musk melon of such superlative quality is a good market or shipping sort, but the firm, solid flesh and thin but strong rind of this sort makes it the best shipper we know of, while it is just the size for hotel and table use. We think it really has no equal as a market melon for professional melon growers, and it is one of the very best sorts for the home garden.

Pkt., 5c. Oz., 15c. 1/4 lb., 40c. Lb., $1.25.

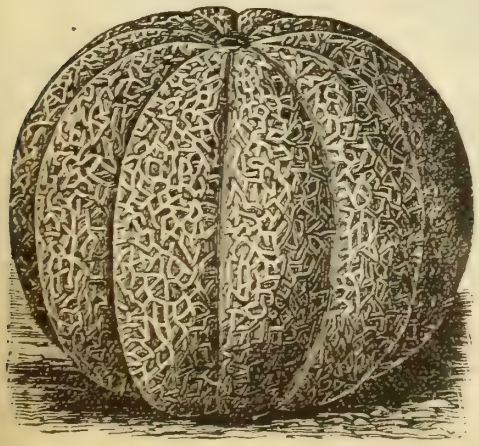


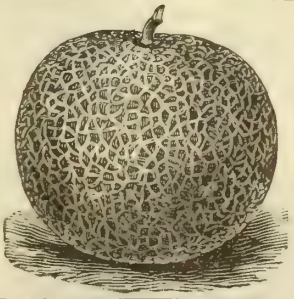
Southern Beauty Cantaloupe

The Musk Melon for the South.

The Grower says: "It is the finest Cantaloupe I have ever planted, particularly suited to the Southern climate. It is remarkably free from rot of all sorts caused by damp or rainy weather, and will hold up a long time after they have ripened, the outer rind remaining firm and sound for at least ten days after the melon first ripens." Again he says: "I shipped these cantaloupes from this point to Chicago, Ill., Cleveland and Cincinnati, Ohio, by freight, where they arrived in perfect condition, and brought fancy prices."

Pkt., 5c. Oz., 15c.
1/4 lb., 35c. Lb., $1.00.





Banquet

This superb melon represents years of careful selection and improvement. The raiser regards it as his greatest production and likely to supersede all other red-fleshed melons. "The Banquet" is a medium-sized melon, flat at both ends, and more beautifully netted than any known variety. In quality it has no equal; the flesh is uniformly deep and of that granulated character that always indicates a good melon; the color is a dark, rich salmon

Pkt., 5c. Oz., 15c.

Extra Early Hackensack

Netted, green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack.

Pkt., 5c. Oz., 15c. 1/4 lb., 40c. Lb., $1.25.

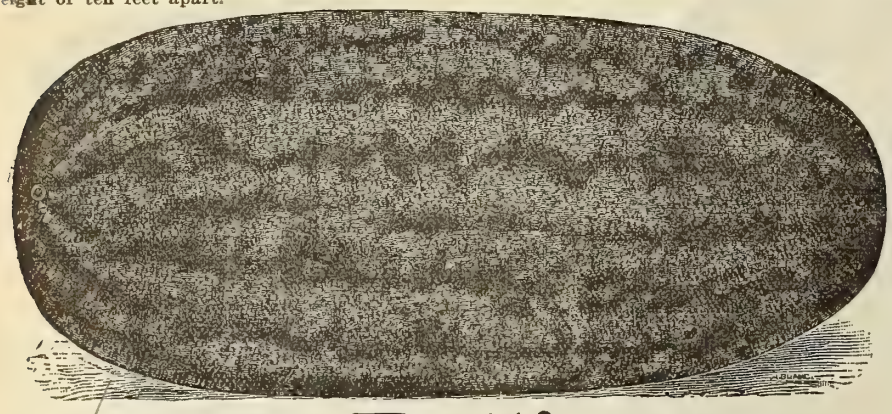
PERFECTED—DELMONICO.—This is one of the best of the red-flesh sort; the flesh is a deep, rich orange color, of very fine grain, and of delicate and delightful flavor. **Pkt., 5c. Oz., 15c.**

LONG ISLAND BEAUTY. Pkt., 5c. Oz., 15c. 1/4 Lb., 50c. Lb., $1.50

WATERMELONS

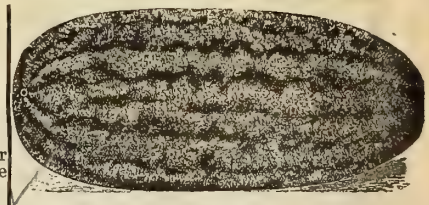
German—Wasser Melone

CULTURE.—One ounce of seed to thirty hills. Watermelons require a rich, sandy soil for best development. Cultivate the same as for Cantaloupes, except that the hills should be eight or ten feet apart.



Lord Baltimore

IT is early, very large, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet, and extending close up to the rind. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best Melons that grows. It is a good shipper, and beats all others as a seller. **Pkt., 5c. Oz., 10c. 1-4 Lb., 20c. Lb., 65c.**



Florida Favorite

THIS we consider the richest and sweetest flavored Melon grown, of medium size and prolific. The best of all for family garden. It is now very popular with the truckers and Melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets.

Pkt., 5c. Oz., 10c. 1-4 Lb., 20c. Lb., 60c.

McIVER'S SUGAR WATERMELON

In outward appearance it somewhat resembles the old Rattlesnake. The quality, however, is so much superior that it is an injustice to mention the Rattlesnake on the same page with it, as it even surpasses such excellent varieties as Florida Favorite and Icing. It is also an extremely productive and hardy variety.

Pkt., 5c. Oz., 10c. 1-4 Lb., 20c. Lb., 60c.

FORDHOOK EARLY.

This is a very early variety, growing to a good size; color, medium green; form nearly round; seeds, white; flesh, bright red and very sweet.

Pkt., 5c. Oz., 10c. 1-4 Lb., 30c. Lb., 1.00

Duke Jones Watermelon

IN shape the **DUKE JONES** resembles very closely the Kolb Gem. The rind is darker green in color, with indistinct, irregular stripes of dark and light green alternating; in general appearance it is a dark green Melon. It averages very large in size, comparatively no small Melons; is very productive; it is also very early in maturing, ripe Melons being plucked from the vine just 67 days from the date of planting. Its chief claim for popularity is its delicious flavor. The flesh is crisp and very sweet, firm, but not too tough; no hard middles; but ripens evenly throughout; flesh deep crimson in color. The Duke Jones is the largest of Melons, but has no superior in its delicious flavor.

Pkt., 5c. Oz., 10c. 1-4 Lb., 20c. Lb., 50c.

DUKE JONES.

BLACK BOULDER.

It is enormously productive reaching a mammoth size, with rich, dark green skin. It cuts equal to any Melon we have ever eaten, and its shipping qualities are phenomenal, no other Melon equaling it in tough skin and rind; in this respect even superior to Kolb Gem.

Pkt., 5c. Oz., 10c. 1-4 Lb., 20c. Lb., 60c.

KLECKLEY'S SWEETS.

Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality. For the home market or family garden it is decidedly one of the best.

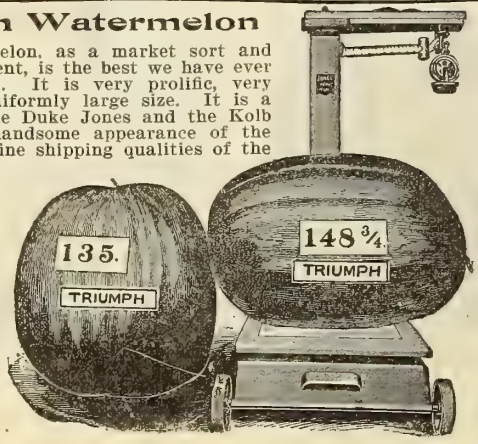
Pkt., 5c. Oz., 10c. 1-4 Lb., 20c. Lb., 75c.

Triumph Watermelon

THIS new Melon, as a market sort and for shipment, is the best we have ever introduced. It is very prolific, very early, and of uniformly large size. It is a cross between the Duke Jones and the Kolb Gem; has the handsome appearance of the former and the fine shipping qualities of the latter.

The rind, like Duke Jones, is of dark green color; the seed is exactly the same color as that of Kolb Gem. The average size of the Melon is very large.

Pkt., 5c.
Oz., 10c.
1-4 Lb., 15c.
Lb., 50c.



GRAY MONARCH, OR LONG WHITE ICING.

This distinct Melon is without doubt one of the largest of all, frequently attaining a weight of 70 pounds and over. The skin is a mottled gray color, shape long, flesh bright crimson, and of sweet, delicious flavor. It is also a fine shipper, carrying well long distances, and bringing very high prices.

Pkt., 5c. Oz., 10c. 1-4 Lb., 15c. Lb., 50c.

RATTLESNAKE WATERMELON.

Large, oblong, striped and mottled; flesh bright red; a good shipper; a favorite variety in the South.

Pkts., 5c. and 10c. 1-4 Lb., 15c. Lb., 50c.

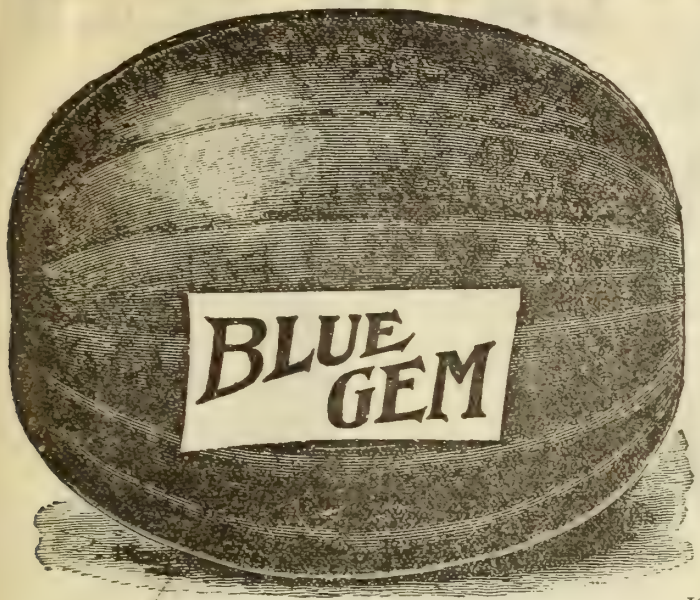
CITRON

FOR PRESERVES.

Fruit round, handsome and small. Used in making preserves only.

Pkts., 5c. Oz., 10c. 1-4 Lb., 25c. Lb., 75c.

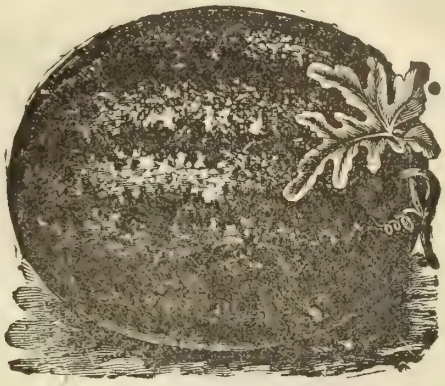
WATER-MELONS—Continued



BLUE GEM.

THIS splendid Melon resembles the Kolb Gem in shape, and is of a dark bluish color, with small grayish stripes. It is one of the very best shippers, and as a table Melon much superior to the Kolb Gem. Very productive, and is handsome and showy.

A grower in Dixie (Georgia) says: "If you want a shipper that will go around the world, you can safely select the **BLUE GEM.**" **Pkts., 5c. and 10c. 1/4 Lb., 20c. Lb., 50c. 5 Lbs., $2.00.**



KOLB'S GEM.

THIS is one of the largest, most productive, best-keeping and best-shipping Watermelons grown. Sells readily at the highest market prices. In fact, it is so well known that it speaks for itself. Our stock of this comes direct from the original grower. Special prices on large quantities. **Pkt., 5c. Oz., 10c. 1/4 Lb., 15c. Lb., 40c.**

DIXIE.

It is earlier and larger than the well-known and popular Kolb Gem, and in color a darker green, with beautiful stripes, making it one of the handsomest Melons on the market. Flesh deep red, sugary and melting.

Pkts., 5c. and 10c. 1/4 Lb., 20c. Lb., 50c.

SWEETHEART.

An entirely distinct and handsome new Watermelon. Vine vigorous and productive, ripening early. Fruit large, oval, very heavy, uniformly mottled light and dark green. Flesh bright red solid and very sweet.

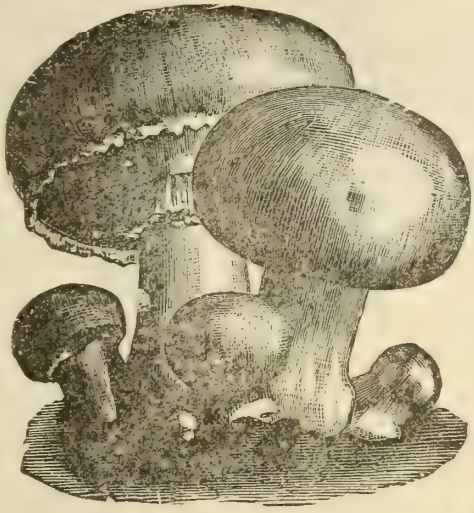
Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 50c.

English Mill Track Mushroom Spawn.

Lb., 12c. By Mail, 20c. 1b. 10 Lbs., $1.00. 100 Lbs., $8.00.

CULTIVATION.

THE cultivation of the Mushroom is a very simple matter, and requires only ordinary intelligence and care. The materials needed are fresh horse manure, good soil and live spawn. The manure should not be too short, as it does not combine the necessary qualities. Long, strawy litter, plentifully mixed with short manure, makes by far the best beds, as it does not heat too violently, decomposes slowly and retains its heat for a long period. Put in a heap and turn every three or four days to permit the escape of noxious gases and prevent burning. When ready for use it should be as hot as can be borne comfortably by the hand, and should also be moist. Make the beds 3 feet wide at the base, 2½ feet high, and of any desired length. The manure, when in proper condition, should be quickly handled to prevent the loss of heat, and be beaten down to make the heap firm and compact, and cover with long litter. The bed should within a few days warm to a temperature of 110 to 120 degrees. Never spawn a bed when the heat is rising, but always on the decline and under 90 degrees. Have a ground thermometer, and keep it plunged in the bed; by pulling it out and looking at it you can ascertain exactly the temperature of the bed. Should the temperature not exceed 100 or 110 degrees no alarm should be felt, for if the manure was fresh it will likely produce a good crop. Where the heat has decreased to 90 degrees the bed is ready to receive the spawn which is done by raising the manure with the hand and inserting pieces of spawn 2 inches square and 9 inches apart each way. At the expiration of a few days the bed may be covered with soil to the depth of about 2 inches. If in a closed cellar or mushroom house, wait about ten days, but if in open shed five days will do. If the soil is poor, add a liberal quantity of bone meal. It requires a period of 5 to 7 weeks before they are ready for use.



Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

Mushrooms can be readily grown in cellars, stables, sheds or pits. Many are successfully grown on a shelf in an ordinary cellar, and yield sufficient crops to compensate the grower for his effort. The space under greenhouse benches or stagings will suit them exactly, using materials in same manner as described.

MUSHROOM ON PASTURE LAND OR LAWN.—About the first of June take pieces of spawn an inch square, and lift the sod with a trowel or spade just sufficient to get a spawn under it, and then press the soil down hard. Set the spawn 1 to 2 feet apart. In a favorable season a crop may be expected in 3 or 4 months from the time of planting.

MUSTARD.

GIANT CURLED.

HIGHLY esteemed in the South, where the seed is sown in the fall, and used in the spring as a salad. Our stock is the true curled leaf, and produces plants 2 feet high and of greater breadth, forming enormous bunches.

Pkt., 5c. Oz., 10c. 1/4 Lb., 15c. Lb., 40c.

WHITE MUSTARD.

1/4 Lb., 10c. Lb., 25c.

NASTURTIUM.

Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

TALL.—Pkt., 5c. Oz., 10c. 1/4 Lb., 25c. Lb., 70c. **DWARF.—Pkt., 5c. Oz., 15c. 1/4 Lb., 25c. Lb., 75c.**

ONION SEED

WHITE SILVERSKIN ONIONS.

CULTIVATION.

TO GROW LARGE ONIONS FROM SEED.

THE seed should be sown as early as possible in the spring, as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large Onions.

THE NEW ONION CULTURE.

Sow the seed in hot-bed, and transplant early as possible to open ground. They can be grown very successfully by this plan.

ONION SETS.

WHITE—Qt., 20c; mailed, 30c. YELLOW—Qt., 15c.; mailed, 25c. Write us for quotations by the bushel.

ONION SETS.

WHITE SILVERSKIN, or PORTUGAL.

A good variety for family use; skin and flesh pure white, mild flavor and flat shape. The best white Onion to grow largely for sets.

Pkts., 5c. and 10c.
Oz., 20c. 1-4 lb., 50c.
Lb., $1.75.

WHITE PEARL ONION.

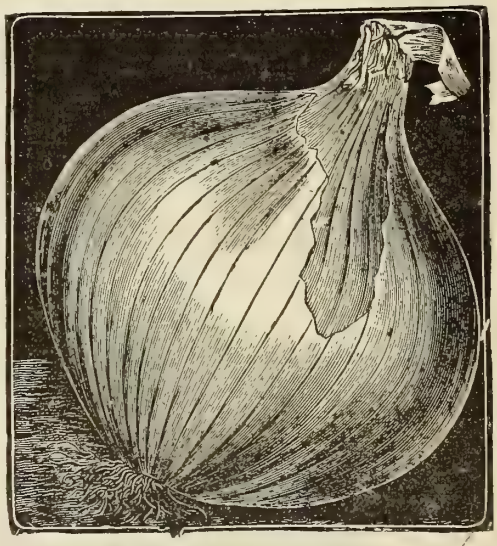
Earliest of all, growing with all the rapidity of a summer Radish. Pearly white, waxy and transparent. Form flat and broad, flavor very mild, and it can be eaten raw almost like an apple. On rich soil it will grow very large. This is an elegant sort to sow for large Onions, because of its rapid growth and fine quality.

Pkt., 5c. Oz., 20c. 1/4 lb., 50c. Lb., $1.75.

AUSTRALIAN BROWN.—A Valuable Long-Keeping Onion.

This new Onion, introduced into the United States a few years since, has met with wonderful success, and is pronounced the best keeper of all Onions. The outside skin is of a deep amber brown, distinct from all other Onions, extremely hard and firm, of fine flavor and will keep almost indefinitely. Australian Brown is the only Onion Australian growers will plant.

Pkts., 5c. and 10c. 1/4 lb., 30c. Lb., 85c.



PRIZETAKER ONION.

CULTIVATION FOR SETS.

HAVE a clean and very rich soil, which should be thoroughly cultivated, or it will not do well enough to pay for the trouble. The most successful growers work their ground several times in the fall to kill out the weeds and get ground in nice condition. Use well-rotted manure freely, and be sure to get the seeds in as early as possible in the spring, no matter if it is ever so cold or unpleasant, and keep the soil mellow and clear of weeds, and if seed is good you will have a large crop of Onion Sets. On no other condition can you hope for success. Disturb the roots of the Onion as little as possible, either in thinning or hoeing, and never hoe earth toward them to cover or hill, as we do most other things.

Sow the seed in drills about 12 inches apart. It will require from 40 to 60 pounds to sow an acre.

OKRA OR GUMBO.

SELECT warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

G. & T. CO.'S NEW DWARF PROLIFIC OKRA.

This new Okra just introduced by us, is being sold for the first time. The stock was secured from one of our leading truckers. It is specially used by canners and market gardeners in and around Baltimore.

Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 60c.

DWARF OKRA.

This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkt., 5c. and 10c.
1-4 lb., 15c. Lb., 40c.

WHITE VELVET.

It is very distinct, and the pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt., 5c. Oz., 10c.
1-4 lb., 15c. Lb., 40c.

PRIZETAKER.

American Grown.

THIS is the large, beautiful Onion that is seen every fall offered for sale at the fruit stores in Baltimore and other large cities. It has a rich straw color and is of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prizetaker a favorite variety for salads. By sowing this sort early you can raise a large crop of large Onions the first season with very little trouble. All that is necessary is good ground., proper cultivation, and not to have them too thick. Those of our growers who have tried this variety have had remarkably fine success.

Pkt., 5c. Oz., 15c. 1-4 lb., 35c. Lb., $1.25.

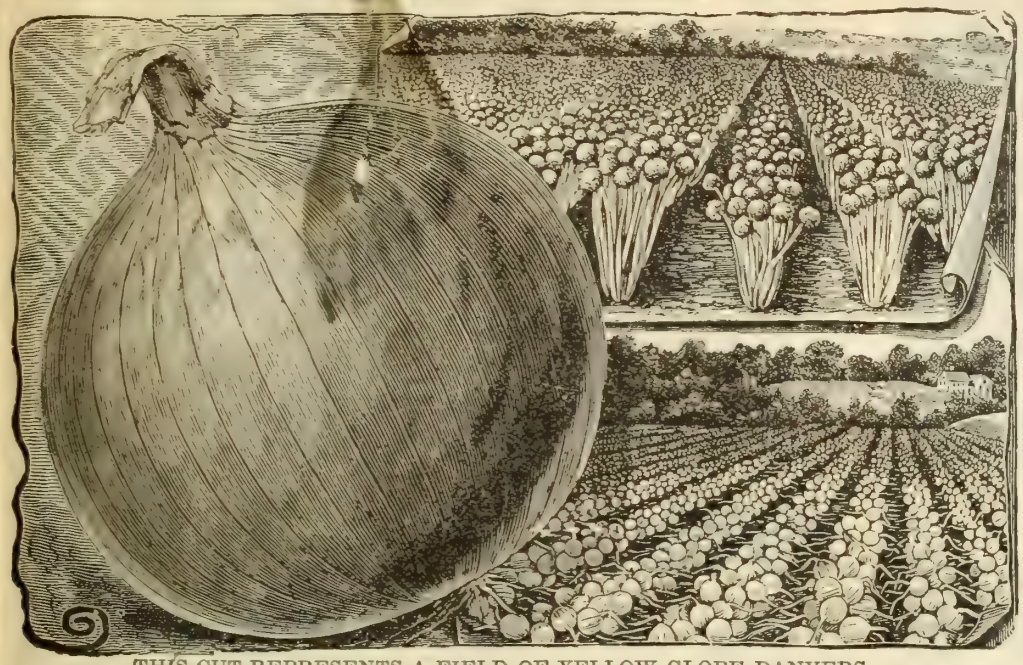
WETHERSFIELD LARGE RED.

A well-known and favorite sort. A large yielder and good keeper.

Pkt., 5c. Oz., 10c. 1-4 lb., 30c. Lb., $1.00.

Special Prices to Market Gardeners.

ONION SEED—Continued



THIS CUT REPRESENTS A FIELD OF YELLOW GLOBE DANVERS.

YELLOW GLOBE DANVERS.

A very handsome, round, yellow Onion, a large yielder and splendid keeper; the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large Onions. **Pkt., 5c. Oz., 10c. 1/4 Lb., 30c. Lb., 90c. 5 Lbs., $4.00.**

An Order for Seed in packets, and Beans, Peas and Corn in pints and quarts, amounting to $5, will be sent for $4, purchaser paying freight.

LARGE YELLOW DUTCH, OR STRASBURG.

Very fine; a good keeper. The kind used very largely by those who grow Onion Sets for market.

Pkt., 5c. Oz., 10c. 1/4 Lb., 25c. Lb., 85c. 5 Lbs., $4.00.

YELLOW FLAT DANVERS.

Oz., 10c. 1/4 Lb., 25c. Lb., 85c.

BERMUDA VARIETIES.

THEY are of a mild and delicate flavor and keep longer than any foreign variety. Like the Italian varieties, they will produce full-grown Onions from seed the same season. In the South seed sown in the fall will produce fine, large Onions for market in early spring.

RED BERMUDA.

Pkt., 10c. Oz., 20c. 1/4 Lb., 50c. Lb., $1.75.

WHITE BERMUDA.

Pkt., 10c. Oz., 20c 1/4 Lb., 50c. Lb., $1.75

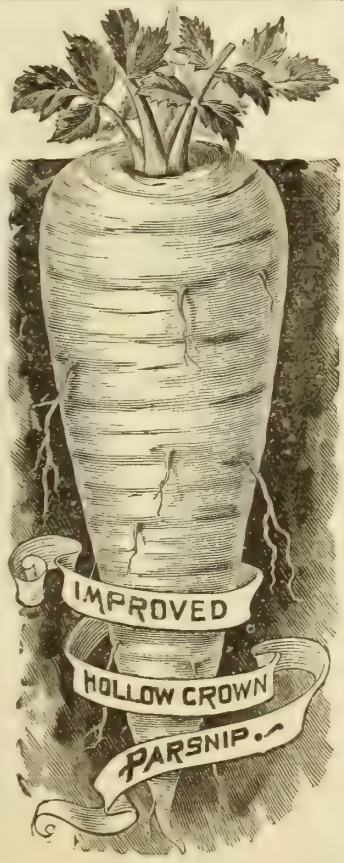
PARSNIP.

THE Parsnip will flourish best and give the longest, largest and smoothest roots in a very deep, rich soil—one that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to 5 or 6 inches apart.

Hollow Crown or Sugar.

THE Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.

Pkts., 5c. and 10c.
1/4 Lb., 15c. Lb., 40c.



DOING SPLENDID.

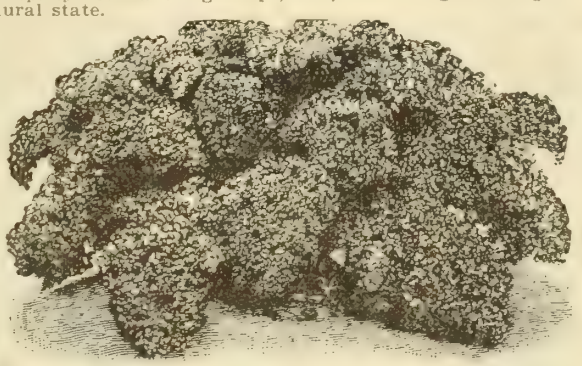
We were very much pleased with the garden seeds we got from you. What we have sown are doing splendid.

MRS. A. B. RENN.
Feagaville, Md.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PARSLEY.

SELECT rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in vegetating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



DWARF EXTRA CURLED.—The most beautiful and valuable variety in use; handsome bright green color, finely crimped, beautifully curled. **Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 50c.**

MOSS CURLED.—A very select crimped variety.
Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 50c.

PEPPER, or Capsicum.

IS cultivated mainly for Pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hot-bed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 or 4 inches high, in rows 18 inches apart.

CAYENNE.—Small, long and tapering, very hot; best for seasoning Pickles. **Pkts., 5c. and 10c. Oz., 20c. 1/4 Lb., 50c.**

LARGE SWEET.—Very large and excellent for Mangoes or Stuffed Pickles. **Pkts., 5c. and 10c. Oz., 20c. 1/4 Lb., 50c.**

BULL NOSE, or BELL.—Good for pickling; very hot.
Pkts., 5c. and 10c. Oz., 20c. 1/4 Lb., 50c.

RUBY KING.—Excellent sort of large size and mild flavor.
Pkts., 5c. and 10c. Oz. 20c. 1/4 Lb., 50c.

GOLDEN QUEEN.—In shape and size similar to Bull Nose; of mild flavor; color, yellow. **Pkts., 5c. and 10c. Oz., 25c.**

RED CHERRY.—**Pkts., 5c. and 10c. Oz., 20c.**

RED CHILI.—**Pkts., 5c. and 10c. Oz., 20c.**

PEAS.

NOTICE.—In ordering Peas to be sent by mail, please add 5c. per pint to pay postage.

THE dwarf varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in a good condition. Plant the dwarf in rows two feet apart. Those varieties attaining the height of from two to three feet in rows three feet apart and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart will answer finely.

EXTRA EARLY VARIETIES.

G. & T. Co.'s First Early

(In sealed bags thoroughly rogued and hand-picked).

THIS is the earliest of all, and the most profitable early market Pea, because of its early maturity, uniformity of growth and ripening, and its productiveness. It ripens up so evenly as only to require about two pickings to secure the crop. It is grown from selected stock, under our own supervision, and the greatest care is exercised to keep it up to the highest standard of quality. It is a great favorite with the truckers, and is largely used by private families. Our sales of this sort increase annually. **Pt., 15c. Qt., 30c. Peck, $1.40. Bus., $5.00.**

PEDIGREE EXTRA EARLY PEA.—This new pea, just introduced, surpasses all for earliness and uniformity of growth. **Pt., 15c. Qt., 30c. Peck, $1.75. Bus., $6.00.**

DEXTER (Genuine Stock).—Thoroughly rogued and hand-picked.

Qt., 25c. Peck, $1.30. Bus., $4.75.

RURAL NEW YORKER.—Height, 2½ feet. In maturity it is among the first early.

Qt., 25c. Peck, $1.25. Bus., $4.50.

FIRST AND BEST.—Height, 2½ feet. Grown with special care. One of the early varieties. **Qt., 25c. Peck, $1.25. Bus., $4.50.**

TRIUMPH.

Qt., 20. Peck, $1.25. Bus., $4.25.

PHILADELPHIA.—Extra early.

Qt., 20. Peck, $1.25. Bus., $4.25.

ALASKA.—Our best rogued and hand-picked stock. Height, 26 inches. The earliest Blue Pea; very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color. **Qt., 20c. Peck, $1.00. Bus., $3.75.**

GRADUS OR PROSPERITY—PALE GREEN WRINKLED.—The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest, and of vigorous habit.

Pt., 25c. Qt., 50c. Peck, $3.00.

ADD 5c. PINT FOR POSTAGE.

NOTT'S EXCELSIOR PEAS.

DWARF EXTRA EARLY VARIETIES.

NOTT'S EXCELSIOR.—Is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are always well filled with Peas, which in sweetness and quality have no superior.

Pt., 20c. Qt., 35c. Peck, $2.00. Bus., $7.00.

AMERICAN WONDER.—Very luscious in flavor. Try it. Height, 12 inches. The earliest wrinkled Pea; very productive and sweet. Better suited to the private than to the market garden. **Pt., 20c. Qt., 35c. Peck, $2.00. Bus., $7.50.**

PREMIUM GEM.—Height, 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf Pea, very luscious in flavor.

Pt., 15c. Qt., 30c. Peck, $1.75. Bus., $7.00.

McLEAN'S LITTLE GEM.—Similar to Premium Gem, but more straggling in growth, pods not so well filled; height 18 inches; seed green, wrinkled.

Pt. 15c. Qt., 30c. Peck, $1.75. Bus. $6.25.

BLUE PETER, OR BLUE TOM THUMB.—One of the earliest and hardiest of the dwarf varieties; blue seed, dark green pods; large Peas of excellent quality; much superior to the White Tom Thumb. **Pt., 15c. Qt., 25c. Peck, $1.50. Bus., $5.50.**

MEDIUM OR SECOND EARLY HALF DWARF, WRINKLED VARIETIES.

ADVANCER.—Height, 2½ feet. A green wrinkled variety, introduced some years ago, and has always given satisfaction.

Qt., 25c. Peck, $1.25. Bus., $4.50.

EVERBEARING.—Vines about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality.

Qt., 25c. Peck, $1.25. Bus., $4.50.

YORKSHIRE HERO.—Height, 2½ feet. A wrinkled variety; productive, and of very superior flavor.

Qt., 25c. Peck, $1.25. Bus., $4.50.

SHROPSHIRE HERO.—A grand new second early wrinkled Pea, producing long, handsome, well-filled pods in great abundance. Height, 2½ feet. **Pt., 15. Qt., 30. Peck, $1.50. Bus., $5.00.**

ABUNDANCE.—Height, 30 to 36 inches. An excellent half-dwarf, medium early, wrinkled variety, pods 3½ inches long, containing 6 to 8 large Peas of excellent quality.

Qt., 25c. Peck, $1.25. Bus., $4.50.

PRIDE OF THE MARKET.—A medium early dwarf Pea of vigorous habit and very productive. The pods are large, of a medium green color, and contain 7 to 9 peas of fine quality; 1½ feet

Pt., 15c. Qt., 30c. Peck, $1.50. Bus., $5.50.

HORSFORD'S MARKET GARDEN.—Height, 2½ feet. A medium early wrinkled variety, highly recommended.

Qt., 25c. Peck, $1.25. Bus., $4.50.

IMPROVED STRATAGEM.—Height, 2½ feet. A large wrinkled, blue Pea, of excellent quality; very long, large, filled pods. More regular in its growth than the ordinary Stratagem, and in every way superior.

Qt., 35c. Peck, $1.50. Bus., $5.50.

DWARF GREEN WRINKLED MARROW.—An excellent new wrinkled variety. Large pods and very productive.

Qt., 30c. Peck $1.50. Bus., $5.00.

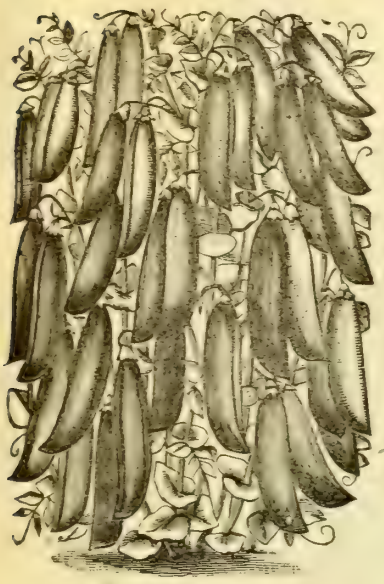
GARDENERS' FAVORITE.

HEIGHT, 30 to 36 inches. A wrinkled variety named and introduced by us, and which is constantly gaining friends; of most delicious flavor, prolific bearer, specially suited for the market garden trade. It is also attracting considerable attention with some of our leading canners, as when packed they find the quality to be superior to any other sort.

Pt., 15. Qt., 30. Pk., $1.50. Bus., $5.00.

PEAS—Continued.

FULL GROWN, MEDIUM AND LATE VARIETIES.



ADMIRAL DEWEY.

Here we have a most excellent, with large, handsome pods; Peas of the highest quality. More dwarf than the Stratagem, and about a week earlier in maturing, regular and uniform in growth; vines stocky, healthy and of vigorous growth; pods long, frequently containing 10 Peas, of tender and delicious flavor. Don't fail to try it.

Pt., 20c. Qt., 35c. Peck, $1.75. Bus., $6.00.

G. & T. CO.'S CANNER'S FAVORITE.—Small green, wrinkled Pea. Sweet, tender of good flavor; pods slightly curved, 3 inches long, height about 30 inches. Very prolific. Specially recommended for canner's use.
Pt., 15c. Qt., 30c. Peck, $1.00. Bus., $3.75.

TELEPHONE.—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled.
Pt., 15c. Qt., 30c. Peck, $1.50. Bus., $6.50.

TELEGRAPH, OR LONG ISLAND MAMMOTH.—Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance.
Pt., 15c. Qt., 30c. Peck, $1.50. Bus., $5.00.

CHAMPION OF ENGLAND.—Height, 4 feet. An old favorite, rich flavored and very productive.
Pt., 15c. Qt., 25c. Peck, $1.25. Bus., $4.00.

FRENCH CANNER.—Height 3½ feet. The Celebrated Pea used in France by the canners. It is wonderfully prolific, bearing an abundance of long pods, containing seven to nine Peas of excellent flavor.
Pt., 15c. Qt., 25c. Peck, $1.00. Bus., $3.50.

IMPROVED SUGAR MARROWFAT PEAS, (Genuine Stock).—Height, 3½ feet. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite.
Pt., 15c. Qt., 30c. Peck, $1.50. Bus., $4.00.

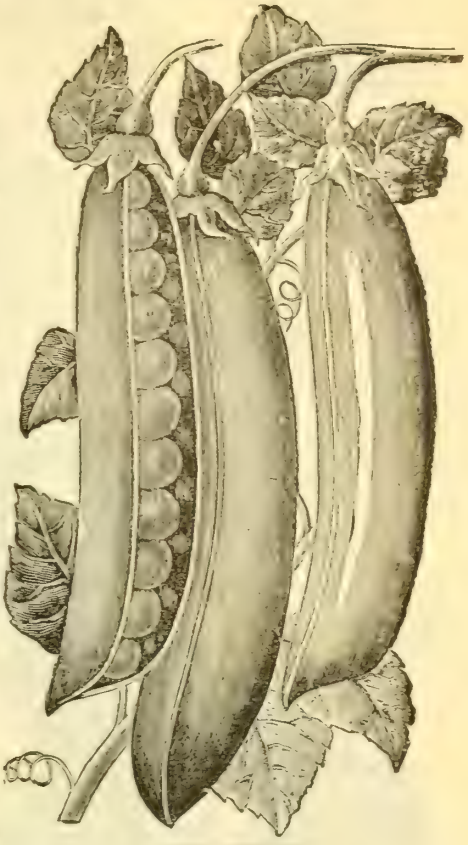
EDIBLE PODDED OR SUGAR PEAS.

MELTING SUGAR—Edible Pods.

THIS variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad, handsome light green pods, and are so brittle that they snap without any strings.
Pt., 20c. Qt., 30c. Peck, $2.00.

TALL GRAY SUGAR (Crop failed).—Edible pods; cooked in the pods same as Snap Beans.
Pt., 20c. Qt., 30c.

DWARF GRAY SUGAR.—Edible pods; quite a favorite. **Pt., 20c. Qt., 30c.**



HEROINE PEA.

A medium early, green, wrinkled Pea, and one of the best of recent introduction; large, curved showy pods; an immense cropper; Peas of fine quality. Height, 2 to 2½ feet.
Pt., 15c. Qt., 30c. Peck, $1.50. Bus., $5.00

PUMPKIN.

PLANT in May, in hills 8 feet apart. Allot 10 seeds to each hill, as bugs often destroy the young plants, but only allow 2 to 3 healthy plants to remain in each hill. They are usually planted in fields with Corn or Potatoes.

G. & T. CO.'S MARYLAND SWEET POTATO.

G. & T. CO.'S MARYLAND SWEET POTATO.

THIS is the best table Pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white stripe. The flesh is a rich yellow color, solid, fine-grained, very thick, flavor delicious.
Pkt., 5c. Oz., 15c. 1/4 Lb., 25c. Lb., 75c.

LARGE CHEESE.—Skin, reddish orange; flesh thick, fine and sweet.
Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 50c.

TENNESSEE SWEET POTATO.—A splendid pie and cooking Pumpkin. They grow pear-shaped of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine grained, keeping well until late in the spring. When cooked resembles Sweet Potatoes, but much more delicious in taste.
Pkt., 5c. Oz., 15c. 1/4 Lb., 25c. Lb., 75c.

CONNECTICUT FIELD.—Very productive and grown for feeding stock. It is so well known that it does not need description.
Pt., 15c. Qt., 25c. Lb., 30c. 5 Lbs., $1.25.

YELLOW CASHAW, OR CROOKNECK.—Solid flesh, fine and sweet; keeps well.
Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 60c

RADISHES

LONG BLACK SPANISH.—A large winter variety; one of the hardiest, with dark green leaves, firm in texture; keeping until spring.
Pkt., 5c. Oz., 10c. 1/4 Lb. 20c. Lb. 60c.

LARGE WHITE SPANISH, Winter. Fine keeping quality.
Pkt., 5c. Oz., 10c. 1/4 Lb. 20c. Lb. 50c.

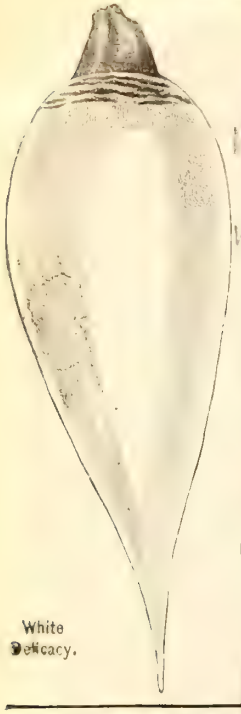
ROUND WHITE SPANISH.—A good fall or winter variety.
Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 50.

SPANISH RADISH.

ROUND BLACK SPANISH.—A fine globe shaped Radish, very popular with the Germans, known as Rettig; good quality.
Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 50c

SCARLET OLIVE-SHAPED RADISH.—A showy half-long variety of pretty shape and bunches beautifully.
Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 50c

RADISHES.—Continued.



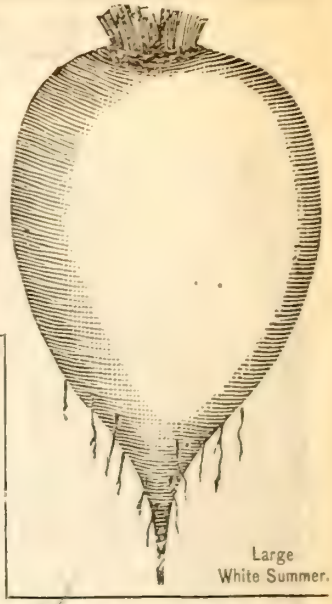
White Delicacy.

FOR an early supply sow in hot-bed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly it will be hard, fibrous and disagreeably pungent.

WHITE DELICACY.—This excellent Radish, introduced by us last year, has proved itself all that has been claimed for it. It has become a great favorite with the truckers and market gardeners around Baltimore. Succulent, crisp, delicate, smooth and clean. Among the earliest spring varieties; an improvement on the White Strasburg, which it resembles, being more evenly shaped and smaller-topped; grows into full size and perfection during the hottest months. **Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 40c.**

LARGE WHITE SUMMER, The Great Summer Radish.—This is the most popular white Radish for summer use with the gardeners around Baltimore, because of its handsome appearance and ready sale, and its well-known quality of being slow to run to seed.

Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 35c. 5 lbs., $1.50.

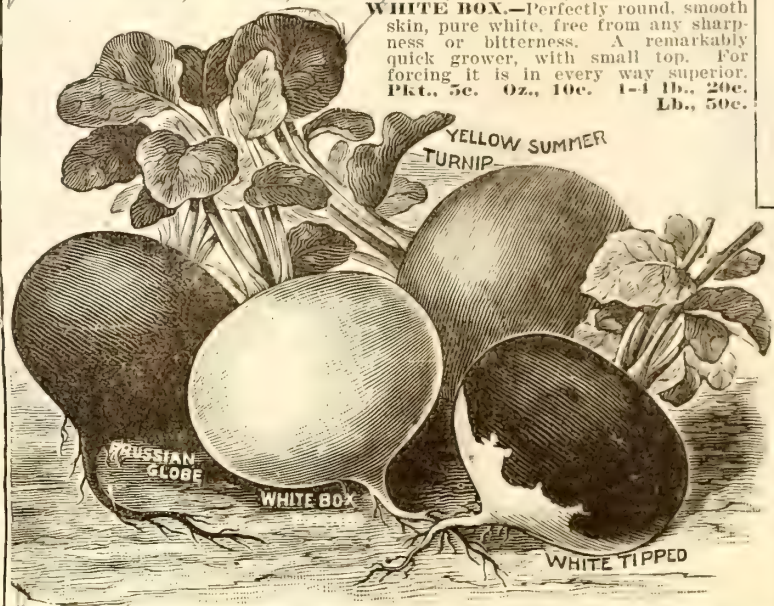


Large White Summer.

GOLDEN GLOBE.—An excellent summer Radish. Slow to run to seed; shape globular, bright yellow color, and mild flavor.

Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 40c.

WHITE BOX.—Perfectly round, smooth skin, pure white, free from any sharpness or bitterness. A remarkably quick grower, with small top. For forcing it is in every way superior. **Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 50c.**



EARLY WHITE TIPPED SCARLET.—An excellent variety for forcing, with very short leaves; bright scarlet in color, with a white tip. **Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.**

EARLY SCARLET TURNIP.— Turnip shaped, skin red; for forcing. **Pkt., 5c. 1-4 lb., 15c. Lb., 50c.**

FRENCH BREAKFAST.—Of Oval form; color scarlet, white tipped. **Pkt., 5c. Oz. 10c. 1-4 lb., 15c. Lb. 30c.**

EARLIEST WHITE TURNIP.—For forcing. This and the Red Turnip bunch together very nicely. **Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 30c.**

TRIUMPH RADISH—Striped, Red and White.—This is a beautiful and odd Radish, which, when mixed in the bunch with Scarlet Radishes, makes a pleasant contrast. The Radishes are globe shape and strikingly handsome, having bright scarlet stripes on a white ground. It is a splendid forcing variety, with short top, small leaves, and matures quickly. It is very ornamental for table use. **Pkt. 10c. Oz., 15c. 1-4 lb., 40c.**

EARLY SCARLET, or PRUSSIAN GLOBE RADISH.—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

WHITE STRASBURG.—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender. **Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 40c.**

CHINESE ROSE WINTER.—Remarkably fine for winter use. The best of the winter sorts. **Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 50c.**

WHITE CHINESE WINTER, or CELESTIAL.—An excellent white winter Radish; a good keeper.

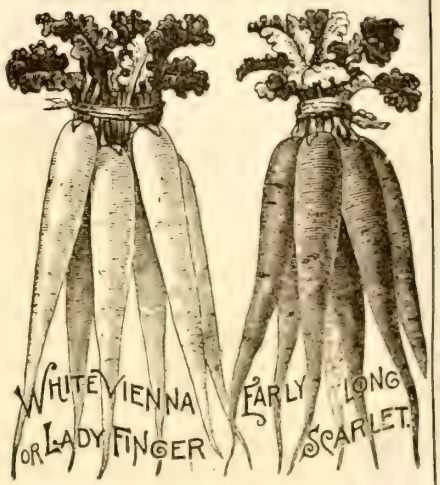
Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 65c.

GIANT STUTTGART.—A splendid new variety, of excellent quality; withstands summer heat.

Pkt., 5c. Oz., 10c. 1-4 lb., 20c. Lb., 50c.

CINCINNATI MARKET NEW GLASS RADISH.—Pkt., 5c. Oz., 10c. 1-4 lb., 15c. Lb., 35c.

WHITE VIENNA, or LADY FINGER.—This is unquestionably the finest long white Radish. Of most handsome shape; color a beautiful snow white. It is of very rapid growth, and remarkably crisp, brittle and tender, equally desirable for the market or home garden. **Pkt. 5c. Oz. 10c. 1-4 lb., 15c Lb. 40c.**



LONG SCARLET.—(American Grown).—Very attractive and sells readily. Owing to its handsome shape, brilliant color and fine qualities, it commands a higher price and more ready sale than the imported Long Scarlet, as generally sold.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c. 5 Lbs. 1.75

CHARTIER.—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

SALSIFY

Or VEGETABLE OYSTER.

SOW in early spring in light, rich soil in drills fourteen inches apart and thin the plants to six inches in the row. The roots will be ready for use in October, and will sustain no injury by being left in the ground during the winter.

SANDWICH ISLAND MAMMOTH.—This new Salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners. **Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 90c.**

LARGE WHITE.—The old well-known variety. **Pkt. 5c. and 10c. 1-4 lb. 25c. Lb. 80c.**

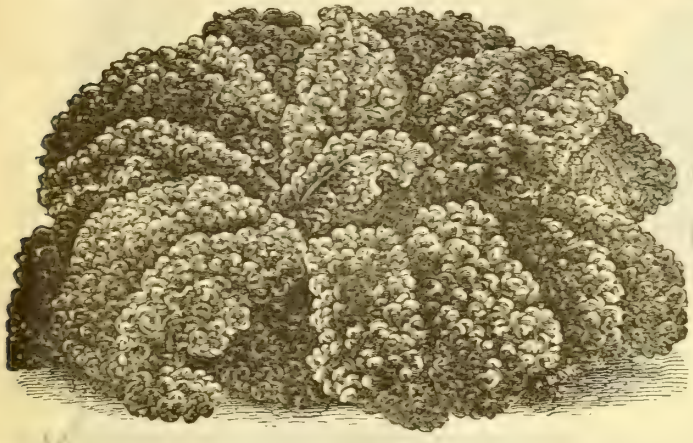
RHUBARB, —OR— PIE PLANT.

SOW in April in drills one inch deep and one foot apart. When plants are large enough, thin to ten inches apart, and cultivate. In the fall or following spring, transplant into deep, rich soil three feet apart each way.

Pkt. 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.50.

ALL PRICES OF SEEDS IN THIS CATALOGUE ARE SUBJECT TO CHANGE WITHOUT NOTICE

SPINACH.



THIS is quite an important crop with market gardeners, and one easily managed.

For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring use sow in August, and protect the plants through the winter by a thick covering of clean straw or some similar light covering. Spinach is used principally as greens for boiling, and is very highly esteemed for this purpose.

LARGE ROUND-LEAVED VIROFLAY.—A new sort, with very large, thick leaves.

Pkt. 5c. 1-4 lb. 10c. Lb. 20c.

LONG STANDING.—Best for spring sowing, as it is very slow to seed. The leaves are large, round, unusually thick, curled and of dark green color.

Pkt. 5c. 1-4 lb. 10c. Lb. 20c. 5 lbs. 75c.

CURLED SAVOY, or BLOOMSDALE.—The leaves are fine, curled, large, thick and heavy, and are produced in great numbers.

Pkt. 5c. 1-4 lb. 10c. Lb. 20c.. 5 lbs. 75c.

G. T. & CO.'S EXTRA CURLED AMERICAN GROWN SAVOY SPINACH.—This is grown specially for us, and is without exception the best type of Savoy Spinach in existence. It is beautifully curled and wrinkled, the leaves large, thick and heavy, produced in great numbers, and stands handling and transportation better than any other sort; in fact, we hardly think we could say too much about this valuable acquisition to the spinach family. Sold only in sealed bags.

Pkt. 5c. 1-4 lb. 15c. Lb. 30c. 5 lbs. $1.25

VICTORIA SPINACH.—This new spinach comes to us with the highest recommendations from the growers. The foliage is heavy, the broad, dark green leaves being of the true Savoy appearance, and of the finest quality, but the most remarkable feature that will make it of special value, both for market and family gardens is the fact that it is in prime condition from two weeks to three weeks after all other varieties of spinach have run to seed.

Pkt. 5c. 1-4 lb. 10c. Lb. 20c.

WRITE FOR SPECIAL PRICES IN QUANTITIES.

SQUASH.

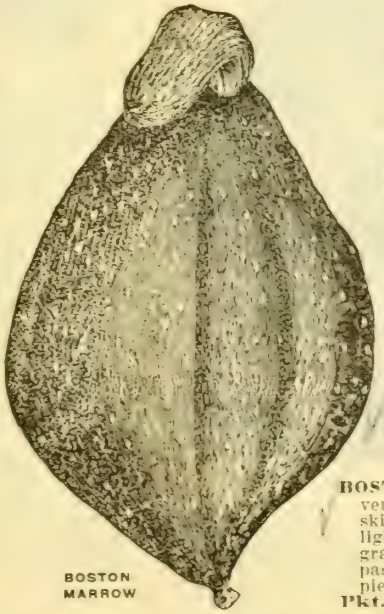
THE Squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties, and eight feet for the running varieties: put eight seeds to the hill, but don't allow over three to stand.

EARLY WHITE BUSH SCALLOP.—A desirable and marketable sort. Best known and most productive of all the summer sorts.

Pkt. 5c. Oz., 10c. 1-4 30c. Lb., 90c.

EARLY YELLOW BUSH SCALLOP.—An early, flat scallop shaped variety; color yellow, flesh pale yellow and well flavored, very productive; used when young and tender.

Pkt. 5c. Oz., 10c. 1-4 30c. Lb., 90c.



BOSTON MARROW

SUMMER CROOK NECK (Early).—Fine flavor; a desirable table sort. **Pkt., 5c. Oz., 10c. 1-4 lb., 30c. Lb., $1.00**

WINTER CROOK NECK.—Flesh red, fine flavor; largely grown for winter use. **Pkt., 5c. Oz., 10c. 1-4 lb., 35c. Lb., $1.00**

HUBBARD.—Fine and desirable for winter use. **Pkt., 5c. Oz., 15c. 1-4 lb., 35c. Lb., $1.25.**

BOSTON MARROW.—A fall and winter variety, very popular in the Boston market. Of oval form, skin thin, when ripe, bright orange mottled with light cream color, flesh rich salmon yellow, fine grained, and for sweetness and excellence unsurpassed, but not as dry as the Hubbard. Fine for pies or baking.

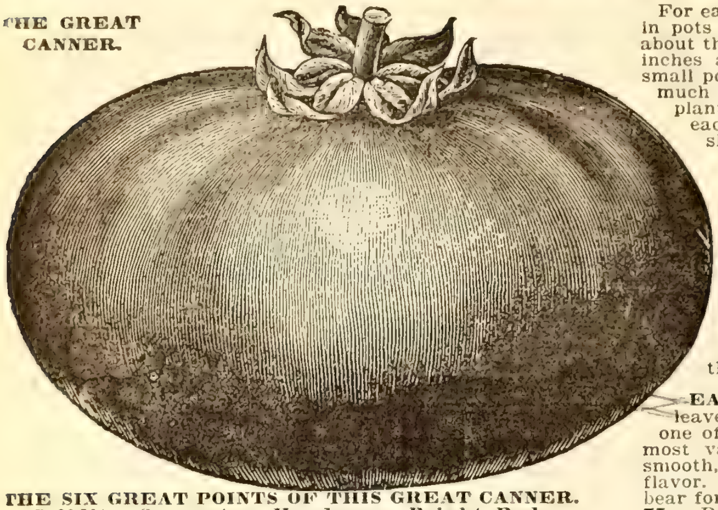
Pkt., 5c. Oz., 10c. 1-4 lb., 25c. Lb., 75c.

MAIN CROP VARIETIES—RED.

Griffith & Turner Co.'s World's Fair Tomato.

GET THE GENUINE IN OUR SEALED PACKAGES.

THE GREAT CANNER.



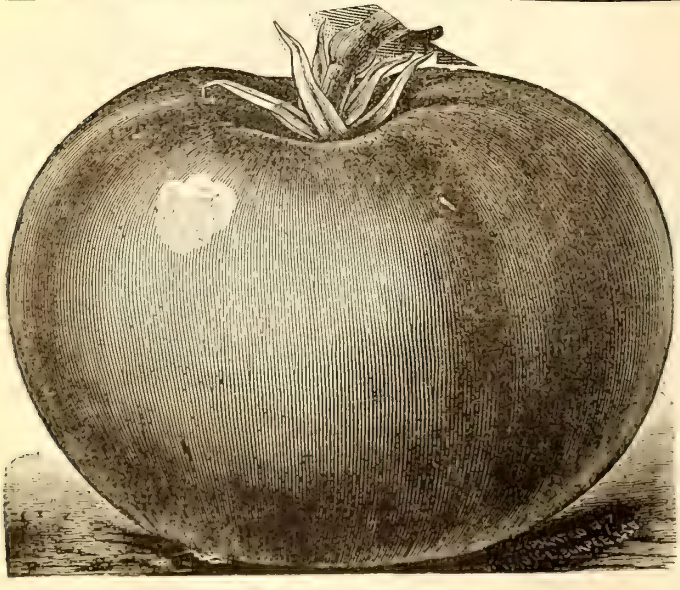
THE SIX GREAT POINTS OF THIS GREAT CANNER.
Solidity, Symmetry, Handsome, Bright Red, Ripens Uniform, Free From Rot.

THIS great Tomato, which we introduced in 1892, is constantly gaining friends wherever known, and deservedly so, because of its many good qualities. Our sales of seed of this sort have increased each year far beyond our expectation. It is without exception one of the best for canners, market gardeners or private use, because of its solidity, symmetrical shape, handsome bright red color, uniformity of ripening and freedom from rot. Its shipping and keeping qualities are unexcelled.

The planters now demand this great Tomato, notwithstanding the fact that there are many very much newer varieties. Yet it has been so successful that it is preferred above all others.

The fruit is particularly solid and of fine flavor, good size, smooth, and certainly very attractive. Packets, 5c. and **10**c. Ounce, **20**c. ¼ pound, **75**c. Pound, **$2.50.**

DO NOT BE DECEIVED BY OTHERS CLAIMING TO SELL THE WORLD'S FAIR TOMATO UNDER THE SAME NAME. IN ORDER TO PROTECT THOSE WHO WANT THE PURE ARTICLE WE GIVE NOTICE THAT WE SHALL ONLY SELL THE WORLD'S FAIR TOMATO IN SEALED PACKAGES.



MATCHLESS.

The color is a rich red. The skin is so tough that it makes a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or table; strong grower and very productive, bearing with undiminished vigor until frost. The fruit is free from core and the seed spaces comparatively small. Packets, **5**c. and **10**c. Ounce, **25**c. ¼ pound, **75**c. Pound, **$2.50.**

For early fruit sow the seed in March or April, in the hot-bed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hot-bed or cold-frame, or removed into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground, at a distance of four or five feet each way. Water freely at the time of transplanting, and shelter from the sun for a few days until the plants are established. Sufficient plants for a small garden may be had by sowing a few seeds in a shallow box or flower pot and placing in a sunny window in the house. Cultivate thoroughly as long as the vines will permit.

Tomatoes will admit of training to stakes or trellis of various kinds, and the fruit is very much improved both in appearance and quality. This mode of cultivation is now quite common among gardeners who grow for early market. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant up with wool or other strong, soft twine, pruning out quite freely as the vines advance in growth. By adopting this method the plants may be set much closer than in the ordinary way.

EARLY MICHIGAN.—Vines large, with large, dark green leaves, vigorous and wonderfully productive; under high culture one of the heaviest croppers; fruit medium to large size; unlike most varieties, grows larger as the season advances; perfectly smooth, solid, but without core; deep rich red color; of excellent flavor. Its first fruits are very early, but the vines continue to bear for a long time. Packets, **5**c. and **10**c. Ounce, **25**c. ¼ pound **75**c. Pound, **$2.50.**

THE NEW STONE TOMATO.

Ripens for main crop; is very large and of bright scarlet color; very smooth, with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed (as its name indicates). It is an excellent shipper; fine for canning; a good keeper; not subject to rot. Packets, **5**c. and **10**c. Ounce, **20**c. ¼ pound, **60**c. Pound, **$2.00.**

BRINTON'S BEST.

One of the leading sorts for second early and late use; the fruit is large, handsome, and a splendid keeper. A great favorite with canners and truckers. Packets, **5**c. and **10**c. Ounce, **20**c. ¼ pound, **60**c. Pound, **$2.25.**

LIVINGSTON'S FAVORITE.—Bright red, smooth Tomato of good size. Packets, **5**c. and **10**c. Ounce, **20**c. ¼ pound, **50**c. Pound, **$2.00.**

PARAGON.—Well-known standard bright red Tomato. Packets, **5**c. and **10**c. Ounce, **20**c. ¼ pound, **60**c. Pound, **$2.00.**

ROYAL RED.—New; resembles Favorite in form and color; good main crop variety. Packets, **5**c. and **10**c. Ounce, **20**c. ¼ pound, **50**c. Pound, **$1.75.**

Messrs. Griffith & Turner Co.

Please notify me when you will get in your **World's Fair** Tomato Seed. Will you handle the genuine **World's Fair** this year? I have been growing them for the past **five** years and they are the finest I ever saw.

J. W. THOMAS, Virginia.

MAIN CROP VARIETIES.—Continued.

NEW QUEEN TOMATO.—Fruit somewhat resembles Paragon in appearance. This sort is well known and a favorite among canners, but it is not as deep red in color nor as weighty and solid as our World's Fair. Packets, 5c. and 10c. Ounce, 20c. ¼ pound, 60c. Pound, $2.00.

ATLANTIC PRIZE (Select Stock).—An excellent extra early red Tomato, and while it does not run as regularly smooth as the Paragon, it ripens very evenly. Packets, 5c. and 10c. Ounce, 20c. ¼ pound, 60c. Pound, $2.25.

FREEDOM.—The new early; no better extra early grown; remarkably prolific; continual bearer; brilliant scarlet; smooth and round. A great point in this Tomato lies in the fact that enromous quantities of the fruit can be gathered while other early varieties are ripening a few. Remarkably solid; few seeds; and free from acidity. Packets, 5c. and 10c. Ounce, 25c. ¼ pound, 90c. Pound, $3.00.

MAULE'S EARLIEST.—New; very fine; extra early; very prolific; fruits large size;; excellent for shipping. Packets, 5c. and 10c. Ounce, 25c. ¼ pound, $1.50.

EXTRA EARLY VARIETIES.

SPARKS' EARLIANA.

The Earliest Bright Red Tomato; Very Large, Smooth, Color Bright Red; Solid and Excellent for Slicing.

The plants are of moderate growth well set with fruits, nearly all of which ripen extremely early in the season. Grows in clusters; of medium size; smooth, solid, solid centre, small seed cells, slightly acid. Packets, 5c. and 10c. Ounce, 50c. ¼ pound $2.00. Pound, $7.00.

CHALK'S EARLY JEWEL.

Deepest-Fruited and Most Solid of All Extremely Early Tomatoes.

The growth is very compact. Fruit of uniformly good size; very solid; brightest scarlet, ripening up to the stone without cracks or green core; sweet flavor. Packets, 5c. and 10c. Ounce 50c. ¼ pound, $2.00. Pound, $7.00.

NEW SUCCESS.—A magnificent new scarlet-fruited Tomato of finest quality, handsome appearance, large size, and great productiveness. The vines are of strong, vigorous growth with abundant foliage; fruits set in clusters; color brightest scarlet; perfectly smooth and free from cracks; the interior is very meaty, of fine flavor. It ripens with the second earlies and yields abundantly throughout the season. The handsome color, even size, and great solidity of Success make it an excellent market sort. It is well adapted also to canners' use by reason of its rich deep-red color, solidity of flesh, and desirable form for rapid peeling without waste. Packets, 5c. and 10c. Ounce, 25c. ¼ pound, 75c. Pound, $2.50.

EXTRA EARLY PURPLE VARIETIES.

BEAUTY.—For early market and shipping this cannot be excelled, because of its solidity and toughness of skin. Color is a rich, glossy crimson, with a slight tinge of purple. It is well known and very largely used by our gardeners. Packets, 5c. and 10c. Ounce, 20c. ¼ pound, 50c. Pound, $1.75.

MAGNUS.—A fine medium crop variety; has Acme color; heavy; solid; fruit is set in cluster; heavy cropper and very robust. Packets, 5c. and 10c. Ounce, 20c. ¼ pound, 75c.

DWARF CHAMPION.—Dwarf, upright growth; smooth purple fruit. Packets, 5c. and 10c. Ounce, 30c. ¼ pound, 75c.

PRIZETAKER.—Early; large; handsome; deep crimson; slight tinge of purple. Packets, 5c. and 10c. Ounce, 20c. ¼ pound, 50c. Pound, $1.50.

BEAUTY.

MEDIUM PURPLE.

PRIZEWINNER.—Early; prince of market Tomatoes; color resembles Beauty, but larger; solid; one of the best keepers and shippers; smooth; well adapted for late crop. Packet, 10c. Ounce, 20c. ¼ pound, 60c. Pound, $2.00.

PONDEROSA.—Remarkable for size; fruits heavy; deep red; flesh thick, solid and fine quality. Packet, 10c. Ounce, 35c. ¼ pound, $1.25.

ACME.—Early; medium; pink-purplish; slightly oval. Packets, 5c. and 10c. Ounce, 20c. ¼ pound, 50c. Pound, $1.75.

CRIMSON CUSHION.—Resembles Ponderosa in shape and size; color deep red. Packet, 10c. Ounce, 35c. ¼ pound, $1.00.

BUCKEYE STATE.—Productive, but not very solid; large, smooth purple. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., $1.75.

GOLDEN QUEEN, or SUNRISE.—Packets, 5c. and 10c. Ounce, 25c. ¼ pound, 75c.

LORILLARD.—Best for greenhouse forcing; bright glossy red; very smooth. Packet, 10c.

SMALL FRUITED VARIETIES.

PEAR-SHAPED RED.—Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

PEAR-SHAPED YELLOW.—Used for preserves and pickles. Packets, 5c. and 10c. Ounce, 25c. ¼ pound, 75c.

YELLOW PLUM.—Color bright yellow; excellent for preserving. Packet, 5c. Ounce, 25c. ¼ pound, 75c.

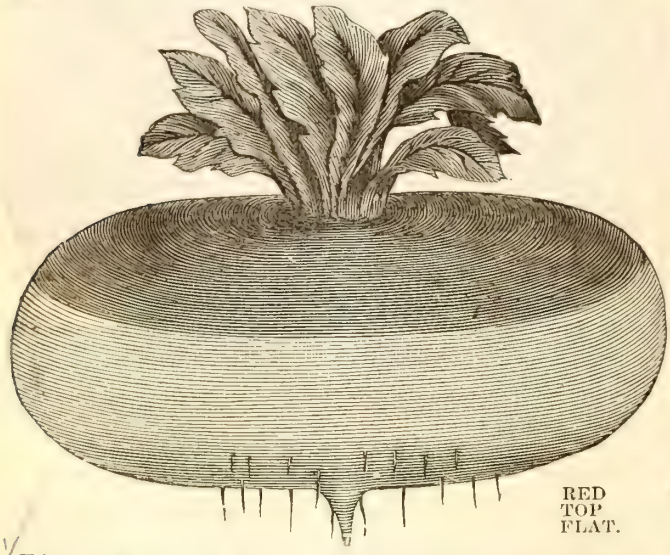
Sweet, Pot and Medicinal Herbs.

A little collection of Sweet Herbs is a treasure to the cook and nurse. A small place in the garden will give all the herbs needed in any family, and care should be taken to harvest them properly. This should be done on a dry day before they come into full bloom, then dried quickly and packed closely, entirely excluded from the air. Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance.

	Packets.	Ounce.	¼ Pound.	Pound
MARJORAM	5c.	15c.	40c.	$1.25
ANISE	5c.	10c.	30c.	......
BASIL	5c., 10c.	15c.	.....	......
BENE, used medicinally	5c.	15c.	.....	......
BORAGE, excellent for bees.	5c.	15c.	40c.	$1.25
CARAWAY	5c.	10c.	25c.	......
CHERVIL	5c.	25c.	.....	......
CHICKORY	5c.	10c.	.....	......
CORIANDER	5c.	10c.	25c.	$0.75
DILL	5c.	10c.	20c.	.60
LAVENDER	5c.	15c.	.....	1.25
FENNEL (Sweet)	5c.	10c.	25c.	....
ROSEMARY, an aromatic herb	5c.	25c.	.....	......
SAGE (American)	5c., 10c.	15c.	40c.	$1.50
SUMMER SAVORY	5c.	10c.	25c.	.75
THYME (broad-leaved English)	5c., 10c.	20c.	75c.	....

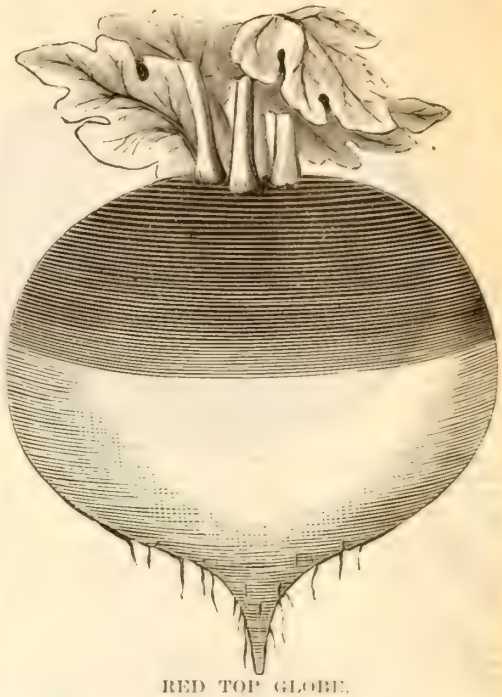
TURNIP.

FOR early use, sow the small sorts as soon as the ground can be worked in the spring, in drills fourteen inches apart, the Rutabagas thirty inches. As the seed is very fine, it should be covered but slightly, excepting in very dry weather. Select light, and if possible, new soil, and manure with plaster and ashes, or phosphates. Should the young plants be troubled with insects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August; and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.



RED TOP FLAT.

Owing to failure in crops in the seed-growing sections, prices on all vegetable seeds are subject to change without notice.



RED TOP GLOBE.

EARLY RED TOP FLAT.—Fine, sweet, mild; rapid grower; very early and popular.
Pkt., 5c. 1/4 Lb., 15c. Lb., 35c.

EXTRA EARLY PURPLE TOP MILAN.—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing.
Pkt., 5c. 1/4 Lb., 20c. Lb., 50c.

WHITE FLAT (Strap Leaf).—Differs from Red Top only in color.
Pkt., 5c. 1/4 Lb., 15c. Lb., 40c.

EARLY WHITE EGG.—A new variety of rapid growth; egg-shaped and white, as its name indicates.
Pkt., 5c. 1/4 Lb., 20c. Lb., 50c.

COW HORN (Large Cropper).—This variety is pure white, excepting a dash of green at the crown, and in shape is long like the carrot.
Oz., 5c. 1/4 Lb., 15c. Lb., 45c.

LARGE EARLY RED TOP GLOBE.—A variety of recent introduction. Of large size, rapid growth, unusually attractive. Approved and admired by all who have seen it. A very much heavier producer than either of the Flat varieties and quite as early as the Flat Red Top. Very few market gardeners will have any other kind.
Pkt., 5c. 1/4 Lb., 15c. Lb., 35c.

YELLOW ABERDEEN, or SCOTCH YELLOW.—This is a highly approved CATTLE TURNIP, attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.
Pkt., 5c. 1/4 Lb., 10c. Lb., 30c.

LARGE AMBER, or YELLOW GLOBE.—Grows to a large size; flesh yellow, firm and fine grained. Excellent for either table use or feeding stock.
Pkt., 5c. 1/4 Lb., 15c. Lb., 40c.

SEVEN TOP.—For greens and salads. Used largely in the Southern States.
Pkt., 5c. 1/4 Lb., 10c. Lb., 30c.

SOUTHERN PRIZE.—True strain of the favorite Turnip for Greens in Virginia and the Carolinas. Valued also for its bulb.
Oz., 5c. 1/4 Lb., 10c. Lb., 30c.

RUTA BAGAS
OR SWEDES.

THE Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock raiser should grow Rutabagas and Stock Beets for winter feeding.

GRIFFITH & TURNER CO.'S IMPROVED PURPLE TOP.

Yellow fleshed. A standard field variety for stock, and fine for family use. This splendid Swede is the hardiest, most productive, and most nutritious variety in cultivation.
Pkt., 5c. 1/4 Lb., 15c. Lb., 35c.

YELLOW RUTABAGA.—1/4 Lb., 10c. Lb., 30c. (If Turnip is wanted by mail, add 10c. per Lb. for postage.)

G. & T. CO.'S WHITE ROCK.—Though sometimes called a turnip, this is more like a rutabaga. The root is large, both skin and flesh very white, and is one of the best varieties we have for table use. An excellent keeper and a desirable sort for market gardeners.
Pkt., 5c. Oz., 10c. 2 Oz., 15c. 1/4 Lb., 20c. Lb., 40c.

RUTA BAGA.

VEGETABLE ROOTS.

ASPARAGUS ROOTS.

A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family; 7,260 roots will plant an acre. Select good, loamy soil, plough deep, put in good quantity of manure and 100 pounds kainit to 1,000 square feet of bed. Incorporate thoroughly, make a trench 8 inches deep, set plants 9 inches apart. In field culture rows are placed 4 feet apart.

Barr's Mammoth.—Per 100, **$1.00.** Per 1000, **$4.50.**

Palmetto.—Per 100, **75c.** Per 1000, **$4.00.**

Colossal.—Per 100, **75c.** Per 1000, **$4.00.**

Mammoth White.—Per 100, **$1.00.** Per 1000, **$5.00.**

Extra size roots, 50c. per 1000 additional to above prices.

ARTICHOKES (Jerusalem).—Pk., $1.00. Bu., $2.50. For further information see page 1.

HORSE RADISH ROOTS.—Doz., 20c. Per 100, 75c. Per 1000, $6.00.

RHUBARB ROOTS.—15c. each. Doz., $1.50.

MAINE OR NORTHERN GROWN SEED POTATOES.

The soil best suited to the Potato is a rich, sandy loam, but it seems to thrive in almost any soil or climate. The Potato being a gross feeder, requires a liberal application of manure. If stable manure is to be used, it should be well rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. **GRIFFITH & TURNER CO.'S PLANT FOOD** is especially adapted for Potatoes, as it promotes growth and, at the same time, prevents disease. Plant as early in the spring as the ground can be thoroughly worked in rows 2 feet apart and 1 foot in the rows, covering in light, warm soil about 4 inches, and in cold, wet ground 3 inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.

G. & T. CO.'S EXTRA EARLY PRIZE.—This Potato is in all respects a very superior early sort. It proved to be the earliest and most productive of any we tried; also found its eating qualities first class. We consider it the best early Potato on the market today. Peck, 60c. Bushel, $1.85. Barrel, $4.75.

BLISS TRIUMPH.—This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose; is much more productive and matures its crop at least a week in advance of the Early Rose. Peck, 50c. Bushel, $1.75. Barrel, $4.50.

MAINE, or HOULTON EARLY ROSE.—The Early Rose led the list for over 30 years, and is today one of the best early market Potatoes. Our stock of this is grown on new land, near Houlton, Maine, is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Remember that this stock is not to be confounded with the old run-out Rose, grown in other sections. Peck, 50c. Bushel, $1.60. Barrel, $4.25.

GRIFFITH & TURNER CO.'S EXTRA EARLY PRIZE.

NEW YORK EARLY ROSE.—A leading variety for earliness, quality and productiveness. Peck, 50c. Bushel, $1.50. Barrel, $4.00.

IRISH COBBLER (A New Sort).—Very productive, matures ahead of the Early Ohio. Shape chunky, eyes strong and deeply set, skin netted, flesh white, quality very superior. The writer's attention was called to this variety while on a tour of inspection, and we concluded to place it in our collection. We believe it is something extra. Don't fail to get it. Peck, 60c. Bushel, $1.75. Barrel, $4.75.

EARLY OHIO.—This is very early and productive, of fine quality, and an excellent keeper. Peck, 50c. Bushel, $1.50. Barrel, $4.25.

EARLY NORTHER.—This superb Potato originated at Caribou, Maine. It resembles the Early Rose in shape and color, matures earlier than the Rose, and is much more productive. Under our own observation the past season it yieded more than the Rose, matured earlier, and was in all respects superior. Peck, 50c. Bushel, $1.60. Barrel, $4.25.

RURAL NEW YORKER, No. 2.—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly. Peck, 50c. Bushel, $1.50. Barrel, $4.00.

BURBANK.—This is an old and reliable variety, and is A No. 1 for a late, large-yielding, good-keeping Potato, and for table use, after January 1st, is one of the best. Peck, 50c. Bushel, $1.50. Barrel, $3.75.

NEW QUEEN.—A grand Potato of recent introduction, closely resembling Beauty of Hebron in appearance, color, size and shape, but is 7 to 10 days earlier, and a heavy yielder. Our seed of this variety comes from Maine, where it originated, and is pure and true to name. Peck, 60c. Bushel, $1.50. Barrel, $4.25.

GREEN MOUNTAIN.—A fine late sort. Peck, 50c. Bushel, $1.50. Barrel, $4.00.

SWEET POTATOES.

CHOICE JERSEY SWEETS AT MARKET PRICES DURING SEASON. WRITE US FOR QUOTATIONS.

Second Crop Southern Grown Seed Potatoes.

SINCE we have been advertising the **Second Crop Seed** we often have been asked what it signified, and for the benefit of those who do not seem to know we will state that they are the product of the first planting in the spring, planted again as soon as dug and the result from that planting stored away in the fall for next season's use.

The advantage derived from second seed over first crop is that they do not sprout or shrivel, or lose any of their vigor through the winter, having been checked by frost before maturity; they lie dormant, ready to grow vigorously when planted. They rarely send up more than one sprout; this may divide into several branches. The consequence is all the growth goes into the tubers which grow to full marketable size 12 to 15 days earlier than ordinary seed.

The results from the planting of this seed have been so remarkable that our sales in consequence have grown much beyond our expectations.

THE FOLLOWING VARIETIES ARE GROWN FROM FIRST CROP NORTHERN STOCK:

CROWN JEWEL.—This is a seedling of the Early Ohio. Skin white, with a flesh tint; meat white and floury, cooking evenly through. A very early bearer, and its keeping qualities are equal to the best. Peck, 50c. Bushel, $1.50. Barrel, $3.75.

EARLY ROSE.—Peck, 50c. Bushel, $1.50. Barrel, $3.75.

EARLY PURITAN.—A splendid early sort; fine, white, and prolific, producing large crops of handsome, smooth tubers. Peck, 50c. Bushel, $1.50. Barrel, $3.75.

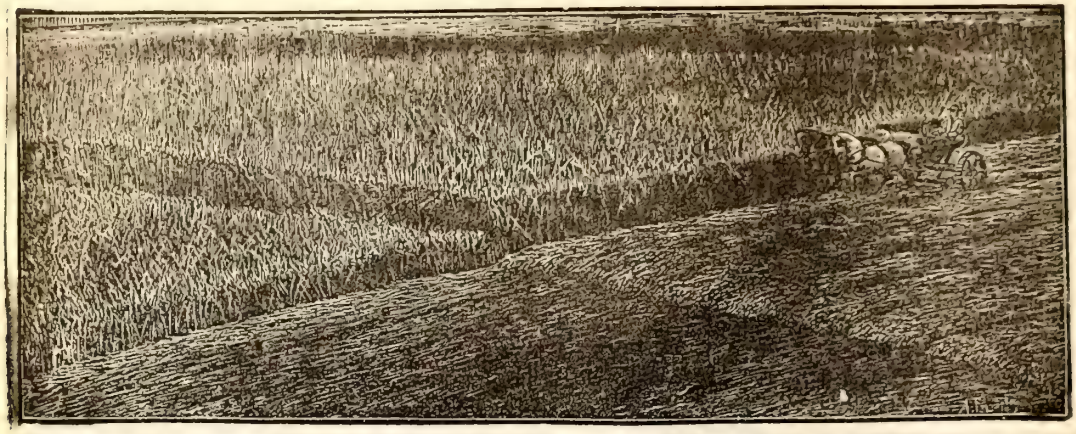
POTATO PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Special Prices Quoted On Application.

OWING TO THE HIGH PRICE OF BARRELS WE ARE SHIPPING POTATOES IN BARREL SACKS.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

OUR SPECIAL GRASS MIXTURE FOR HAY AND PERMANENT PASTURES.



OUR PERMANENT HAY AND PASTURE GRASS

IS prepared especially to meet the demand for a mixture that will be desirable either for cutting for hay or to use for pasture, and contains such grasses as are best adapted for these purposes. In ordering, please state whether you want a mixture for upland or low ground.

MIXTURE FOR UPLAND.—14 pounds to the bushel, 2 bushels to the acre.
Per Bus., $2.50. 10 Bus. for $23.50.

MIXTURE FOR LOW LAND.—14 pounds to the bushel, 2 bushels to the acre.
Per Bus., $2.50. 10 Bus. for $23.50.

GRASS SEED.

CREEPING BENT GRASS (Agrotis Stolonifera).—Excellent for lawns, succeeds well in all conditions, makes a low velvety growth. **Lb., 8c. Bus. (20 Lbs.), $5.00.**

ITALIAN RYE GRASS.—Is an annual and should be sown every year, at the rate of **fifty** pounds per acre. It can be sown during August, September or October. It should be mown as early as the blossoms appear, or the hay will not be so good, and it can be cut every month from early spring if the soil and weather are suitable. **Bus., 20 Lbs. Lb., 12c. 10 Lbs., $1.00. Per 100 Lbs., $8.00.**

ENGLISH RYE GRASS (Lolium perenne).—This makes a quick growth very early in spring, and is adapted for cool, moist locations. 24 pounds to the bushel; 60 pounds to the acre.
Lb., 15c., Bus., $2.25.

MEADOW FOXTAIL (Alopecurus pratensis).—Closely resembles Timothy in growth, but has a soft feathery head. It is a valuable pasture grass by reason of its rapid growth. About 7 pounds to the bushel; 3 bushels to the acre.
Lb., 35c., Bus., $2.35.

CRESTED DOG'S TAIL (Cynosurus cristatus).—Should enter in moderate quantity in permanent pasture mixtures, and in larger quantities for lawns, as it possesses in a marked degree all the desirable features of a good lawn grass. **21 Lbs. to Bus.**
Lb., 45c. 10 Lbs., $4.00.

MEADOW FESCUE.

MEADOW FESCUE, RANDALL, or ENGLISH BLUE GRASS (Festuca pratensis). — This should be very much more largely used than at present. It makes a very good hay and pasturage grass, and is particularly valuable for fall and winter pasturage, as it remains green throughout the winter. It is very popular in Southwest Virginia, East Tennessee and the mountainous districts of North Carolina, where it is very highly appreciated as a large-yielding, nutritious pasturage and hay grass. It succeeds well in nearly all sections of the South, and should be very largely used in pasturage and hay mixtures, being specially suitable for sowing with Red Top and Timothy for hay, or with these and Orchard and Tall Meadow Oat for permanent pasturage. Sow either in the spring or fall at the rate of 50 pounds to the acre. Thrives better under trees than other grasses. **22 Lbs. to Bus.**
Lb., 18c. 100 Lbs., $16.00.

AWNLESS BROME GRASS (Bromus inermis).—Comparatively a new grass in this country, but in Hungary (Europe), its principal home, it is the chief meadow grass of the sandy moorlands. It grows coarse, resembling Orchard Grass; prefers light, dry soil. It roots deeply, and stands protracted droughts well, and will thrive upon soils too poor and dry to grow anything else but broom sedge, hence is valuable for such situations, both for grazing and hay, and especially in mixtures with other grasses. It has, however, been talked up very much in the agricultural press, especially in the West, and is worthy of extended trial. Sow at the rate of from 35 to 40 pounds per acre, when sown by itself, either in the spring or fall.
Lb., 20c. Bus. of 14 Lbs., $2.25.

KENTUCKY BLUE GRASS.—It is rather sensitive to heat but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a fine pasturage when once established. It is much the best, however, to combine other grasses with it, for either lawn or pasturage. Sow in the spring or fall. **Fancy, triple-cleaned, Bus. (14 Lbs.) Per Lb., 18c. 100 Lbs., 15c Lb.**

NOTICE.—Beware of cheap Canada Blue Grass, as it is full of thistle.

TALL MEADOW OAT GRASS (Avena elatior).—Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle, early and late. For hay it may be cut twice a year, and for green soiling it may be cut four or five times in favorable seasons. It is very hardy, and withstands extreme drought and heat and cold. Height, 2 to 4 feet. 50 pounds to the acre. (10 pounds to bushel). **Lb., 28c. 100 Lbs., $25.00.**

RED TOP GRASS.

RED TOP, OR HERD'S GRASS (Agrosis vulgaris). — This grass makes excellent pasturage and good crop of fine quality hay, and succeeds on a greater variety of soils than any other grass in general use, giving very good results on light soils and the very best results on heavier, moist, or low ground soils. It is rather late in starting in the spring, and matures its crop at the same time as Timothy. Is excellently adapted for seeding with Timothy for hay, and furnishes excellent pasturage afterwards. When it gets well established it will gradually supplant other grasses. The grades of the seed usually sold are the grade in the chaff, known as Prime, and the Fancy Clean seed, which is the seed cleaned from the chaff and all impurities. We would strongly advise our customers to sow the Fancy Clean seed in preference to the Prime, or the seed in the chaff, as it will give much better and more satisfactory results. We can also furnish the Choice and Prime Fancy Red Top as usually sold. It requires about 8 to 10 pounds to seed an acre of the Fancy Clean Seed, or 3 to 5 bushels of the Prime.
Red Top in the Chaff, per Bus. of 10 Lbs., 35c. Choice Extra Heavy Seed, per Bus. of 10 Lbs., 75c. Fancy Clean Seed, 32 Lbs. to Bus., 15c. Lb. $12.00 per 100.

SHEEP FESCUE (Festuca ovina).—It is a densely tufted perennial grass for dry, sandy and rocky soil where scarcely any other species will grow. It roots deeply, and forms a dense, short tuft, suitable for lawns and pleasure grounds, where the soil is sandy. It affords wholesome food for all cattle, especially sheep. Specially recommended for pasturage mixtures. Sow about 30 pounds per acre. **Lb. 20c. Bus. of 12 Lbs., $2.00.**

WOOD MEADOW (Poa nemoralis). — An early nutritive grass; thrives better under trees than other grasses. Is also an excellent pasture grass. **Lb., 50c. 10 Lbs., $4.50. 14 Lbs. to Bus.**

RHODE ISLAND BENT GRASS (Agrotis canina).—A very fine variety for lawns. **Lb., 35c.**

SWEET VERNAL (Anthoxanthum odoratum).—Emits an agreeable odor, which it imparts to the hay. **Lb., $1.50**

Grasses and Clovers.—Continued.

ORCHARD GRASS.

ORCHARD GRASS.

(Dactylis glomerata.)

ONE of the best and most reliable grasses for the Middle and Southern States, either for hay or pasturage. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. It starts early in the spring and continues well into winter. It is of quick growth and relished by stock, especially when young, and bears close grazing. It makes excellent hay, and gives the very best results mixed and grown with Tall Meadow Oat Grass and Red Clover, as suggested under the head of Tall Meadow Oat Grass. It should be cut when in blossom, as the hay is injured if the seed is allowed to ripen. It can be sown in the spring or fall either with grain or alone. Sow 3 bushels per acre if sown alone, or with Red Clover, one and one-half bushels of Orchard and seven pounds of Clover are the quantities usually sown. Price fluctuates.

By express, 18c. lb. Bus. of 14 Lbs., $3.25.

MILLET.

GERMAN, OR GOLDEN MILLET.

AN improved variety, medium early, growing three to five feet high. The heads are closely condensed, though the spikes are very numerous. This is the best and most productive Millet to grow. Weight, per bushel, 50 pounds. Market prices.

HUNGARIAN MILLET (Panicum germanicum).—Early and productive, growing 2 to 3 feet high, with an abundance of foliage and slender heads. Weight, per bushel of 48 pounds Market prices.

COMMON MILLET.—Weight, per bushel, 50 pounds.

IMPORTANT.—It does not pay the farmer to buy cheap Grass Seeds, as it is liable to be either old seed, or full of weeds.

TIMOTHY (Phleum pratense).

This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loams, low lands or in mountainous districts, although it will do well on any good stiff loamy soils, provided moisture is abundant. It does not succeed nearly as well, however, as Orchard, Tall Meadow Oat or Herd's Grass on soils of a sandy or light loamy texture, and is not of as much value for pasturage as other grasses. The stand of Timothy will also be injured if grazed or cut too closely. The yield of hay on good ground is from one and a half to three tons per acre. The best clover to sow with Timothy is either the Sapling or Alsike, as they mature and ripen with Timothy. Market prices.

CLOVER SEED.

RECLEANED RED CLOVER.

WE take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. We have, however, cheaper grades for those who wish them.
Market prices.

ALSIKE OR SWEDISH CLOVER.

HARDIEST of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage. Valuable for sowing with other Clovers or Grasses, as it forms a thick bottom and increases the yield of hay. Sow, either fall or spring, 6 pounds per acre when used alone.

Lb., 18c. By mail, 28c. 6 Lbs., $1.00, by express.

Lucerne or Alfafa Clover.

One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Sow on rich, moist loam or sandy soil. Prepare the land thoroughly and sow, either fall or spring, 20 pounds to the acre.

Pound.....20c.
By mail.....28c.
6 Pounds, by express.....$1.15

Special prices in large quantities on application.

LUCERNE.

WHITE DUTCH CLOVER.

Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass for permanent pastures.

Pound.....30c.
By mail, Pound.....40c.
10 Pounds, by express.....$2.80

CRIMSON CLOVER.

SEE PAGE 33.

Grass and Clover Seed Mixtures.

FOR MOWING FOR HAY, BUT CAN BE GRAZED.

MIXTURE No. 1.
For Moist Bottom Land.

Composed of the following Grasses :

Red Top.	Meadow Fescue.
Timothy.	Red Clover.
Alsike Clover.	Kentucky Blue Grass.

Sow 20 pounds to the acre.

Price—$12.00 Per 100 Pounds.

MILLET.

MIXTURE No. 2.
For Light, Dry, Gravelly, or Sandy Soils.

Composed of the following Grasses :

Orchard Grass.	Perennial Rye Grass.
Tall Meadow Oat Grass.	Hungarian Brome Grass.
Red Clover.	Fancy Red Top.
	Meadow Fescue.

Sow 35 pounds to the acre.
Price—$13.00 Per 100 Pounds.

MIXTURE No. 3.
For Good Loam Soil.

Composed of the following Grasses :

Meadow Foxtail.	Orchard Grass.
Tall Meadow Oat Grass.	Perennial Rye Grass.
Meadow Fescue.	Kentucky Blue Grass.
	Red Clover.

Sow 35 pounds to the acre.
Price—$13.00 Per 100 Pounds.

FINEST IN THE COUNTRY.

Last June you sent me four bushels of German Millet, and I now have five acres of it. **Everyone says it is the finest in the country.** It is in a low meadow, and the dry weather does not seem to have any effect upon it.

F. A. WELTY,
Emmittsburg, Md.

If any of the above wanted by mail, add 8c. per pound for postage.

FORAGE AND SILO SEEDS.

FOR YEARS we have taken special care in the selection of the various sorts of Grass and Clover Seeds for field culture, and in consequence our trade in this line has rapidly increased.

Purity of stock and high germinating quality we consider essential.

As we handle very large quantities of these seeds, we are enabled to supply the best quality at lowest prices.

CRIMSON CLOVER, The Great Nitrogen Gatherer.

THE best crop for Hay, Silage and green manuring—all winter and spring pasturage. For Hay, it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October, and will produce an enormous crop early in the following spring. suitable either for consumption as green food or for hay. Fifteen or twenty pounds should be sown to the acre, according to quality of ground. **10c.** per Lb. By mail, **20c.** Ask for prices in quantities.

TEOSINTE.

TEOSINTE.—A most valuable and enormous yielding, continuous cutting forage crop; but should be planted very early to succeed well. Good to use as green food, and also makes an excellent dry fodder. It branches as many as 50 stalks from one seed. Plant in May or June in rows 4 to 5 feet apart each way. Oz., **15c.** ¼ Lb., **35c.** Lb., **$1.00**, postpaid.

EARLY AMBER SUGAR CANE.

It grows 10 to 12 feet high and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Culture same as Corn. Sow 3 or 4 quarts per acre broadcast or 1 bushel per acre for hay. Lb., **10c.** By mail, **20c.** Bus. (50 Lbs.), **$1.75.**

VELVET BEANS.—We strongly recommend our customers to sow this Bean as a soil-improving crop. It costs much less per acre to seed than most any other forage or soil-improving crop grown, and it makes a larger growth and yield of forage than any other yield of its kind. The possibilities of this Bean as a land-improver, and for producing an enormous yield of forage seem almost unlimited. It has now been thoroughly tested in all of the Southern States. The Beans should be planted in May or June. They are usually planted at the rate of one and a-half pecks to the acre, in drills five feet apart. They soon make a rapid growth, covering the ground with a thick mass of vines. Per Bushel, **$2.50.**

COW PEAS.—THE GREAT SOIL ENRICHER. MAKES POOR LAND RICH. MAKES GOOD LAND BETTER.

Prices on Application.

BLACK COW PEA.—It is a splendid land improver and most valuable as a forage crop, making an enormous yield of rich, nutritious feed. Sow in May or June at the rate of one bushel per acre for seed, or 2 bushels for soiling.

BLACK EYE COW PEA.—The Black Eye Peas are very prolific and bring a good price on our market.

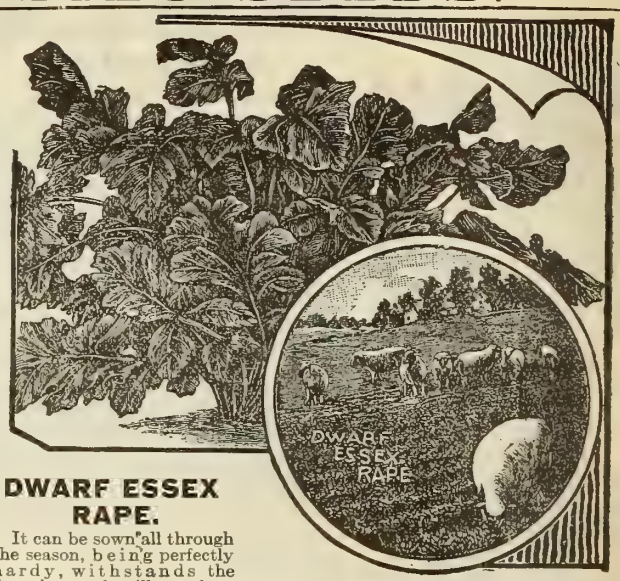
WHIPPOORWILL PEA.—Makes a splendid forage pea. Vines stay green longer than other varieties; pods ripen earlier.

WONDERFUL, OR UNKNOWN.—This makes an enormous and remarkable growth of vines, but requires the full growing season to make its crop. In yield and growth of vines it surpasses any of the varieties of Cow Peas, and it yields very largely of the shelled Peas. This variety should be planted in May in order to come to full maturity.

CANADA FIELD PEAS.—Sown in February, March or April, with a small quantity of oats, they make a large yield of forage. Sow one to one and a-half bushels per acre broadcast with half a bushel of oats. Cut for hay before the Peas mature. Per Peck, **50c.** Per Bushel, **$1.65.** Write for special prices if a quantity is required.

KAFFIR CORN.—The heads contain small white seeds, which make an excellent flour. They are greedily eaten by horses and cattle, and make fine feed for poultry, either fed in the grain or ground and cooked. Use four to five pounds to acre. Lb., **10c.** 10 Lbs., **60c.** 100 Lbs., **$3.00.**

Red Kaffir Corn.—Lb., **10c.** 10 Lbs., **65c.** 100 Lbs., **$3.25.**



DWARF ESSEX RAPE.

It can be sown all through the season, being perfectly hardy, withstands the drought, and will produce a crop in any soil by sowing broadcast at the rate of five pounds to the acre, or 2 to 3 lbs. in drills. It is unequaled as a pasture for sheep, and as a fattening food for all kinds of live stock it is without a rival. Lb., **10c.** By express, 10 Lbs. and over, **8c.** Lb. **$7.00** per 100 Lbs. If wanted by mail add **8c.** per pound for postage.

SOJA BEANS.

The Great Drouth-Resisting Forage Crop, unsurpassed in nutritive value for feeding; also makes a splendid soil improver.

THE DRY BEANS, roasted and ground resemble and taste like coffee, hence it has been advertised as German Coffee Berry. Its great value, however, is as a forage crop and for fertilizing the soil and for pasturing or feeding the green fodder.

Sow broadcast one-half bushel to the acre, or it may be planted in drills three feet apart and one foot between plants.

Price on application.

FLAX SEED.

Lb., **10c.** 5 Lbs., **25c.** Bus., **$2.50.**

FLAX SEED MEAL

For horses and cattle. Lb., **10c.** 6 Lbs., **25c.**

In quantities at market prices.

BROOM CORN.—50 lbs. to Bushel.

To grow Broom Corn successfully, the ground should be rich and well prepared. Plant seeds in rows 3 feet apart by 18 inches. The plants should be cultivated as soon as they are out of the ground. Harvesting should be done when the seed is in a soft, milky condition.

IMPROVED EVERGREEN.—This is the favorite sort; has a fine brush, yields well, and keeps green. Height, 8 to 9 feet.

Lb., **25c.**, postpaid. Peck **75c.** Bus., **$2.50.**

VETCHES, OR TARES.

SPRING VETCHES (Vicia sativa.) — Closely associated with Peas in character. Highly valuable for soiling or for green manuring. Sometimes grown with oats, for mowing and feeding to stock. Use two to three bushels to the acre. Sow in spring, while ground is cool and moist, or in early autumn. Bushel of 60 pounds. Write for prices.

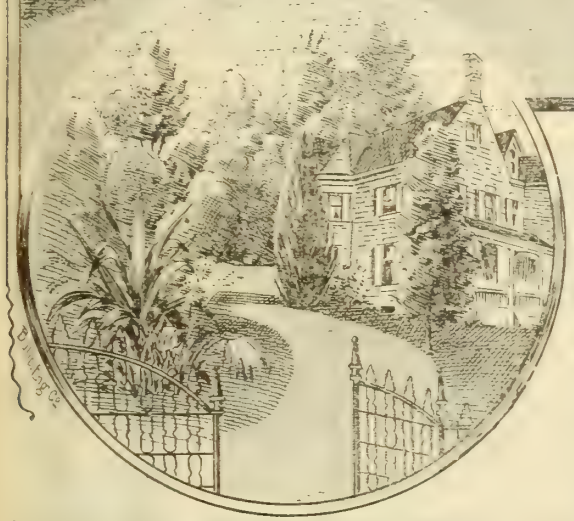
WINTER VETCHES (Vicia villiosa). — Also called Sand Vetch, or Hairy Vetch. Recommended for fall sowing with rye, as in many localities in the North it is hardy, remaining green all winter. A valuable food for stock in early spring. Use one to two bushels per acre. Bushel of 60 pounds. Write for prices.

RUSSIAN SUNFLOWER.

Growing to double the size of the common Sunflower, and the yield of seed is twice as great. It is highly recommended for poultry—the best egg-producing food known.

Lb., 7c.; by mail, **15c.** 4 lbs., **25c.** 10 Lbs., **50c.**

Prices Subject to Change Without Notice.



Our Lawn Grass Should Not Be Confounded With the Cheap, Chaffy Grasses Offered at Less Prices.

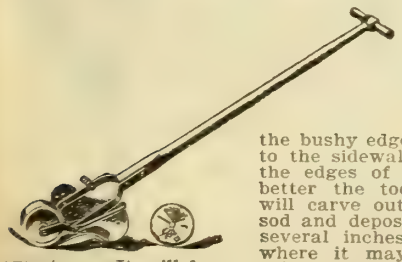
PARK LAWN GRASS.

This mixture does not contain so much of the high-priced grasses as our Evergreen Lawn Grass, but it is superior to many of the cheap grades offered, and will make a very nice lawn. Quart, **20c.** Peck, **$1.00.** Bushel of 16 pounds, **$3.00.**

"TERRACE" SOD MIXTURE.

A special mixture of grasses best suited for sowing on terraces, railroad embankments and side hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out; that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich velvety green turf throughout the season. Quart, **35c.** Peck, **$2.00.** Bushel of 20 pounds, **$7.00.** If by mail, add at the rate of 5c. a quart for postage.

THE "PET" LAWN TRIMMER.



The cut herewith illustrates our "Pet" Trimmer, used for trimming grass from the edges of sidewalks. It will pick up the bushy edges of the sod next to the sidewalk. The smoother the edges of the sidewalk the better the tool will work. It will carve out a little strip of sod and deposit it on the walk several inches from the edge, where it may be very easily swept up. It will leave a clean little valley between the edge of the walk and the sod, giving the lawn a prettier appearance than can be done by any other process. It can be adjusted to run either deep or shallow. The cut shows a little disc which is intended to be used for trimming around the edges of flower beds. This disc is to be slipped on the main shaft between the mold board arm and the cast iron gauge wheel. When trimming along the edges of sidewalks the disc cannot be used. Price.....**$3.50**

PREPARATION AND CARE OF LAWNS.

THE ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as level as possible, so that the grass may present an even appearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, four bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start before cutting, and then it should be trimmed with a lawn mower about every ten days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

GRIFFITH & TURNER CO.'S EVERGREEN LAWN GRASS.

This is a first-class mixture prepared by ourselves, and containing nothing but choice seeds—just the thing for tennis, croquet and ball grounds, remaining green and fresh during the hot summer months. Widely known and extensively used on the finest private and public grounds around Baltimore, Washington and elsewhere with the most satisfactory results. Nothing adds to the attractiveness of suburban homes more than a well-kept, closely-cut velvety lawn; hence the importance of securing the best seeds. This we offer in our selected Evergreen Lawn Mixture, containing different varieties that grow and flourish at different months of the year, so that a rich, green, velvety lawn is constantly maintained. It is adapted to the small grass plots of city homes. Pint, **10c.** Quart, **20c.** ½ peck, **65c.** Peck, **$1.10** Bushel of 20 pounds, **$4.00.**

GRIFFITH & TURNER CO.'S GOLF LINK MIXTURE.

Bushel.....**$2.50.** Ten Bushel Lots.....**$2.25.**

There being a growing demand for a grass mixture suitable for golf and cricket grounds, we have made a study of the grasses best adapted to these purposes, and have them mixed in proper proportions to give desired results. Many of the public and private grounds around Baltimore and other places have been sown with our mixtures, and the grounds have won the admiration of thousands of visitors.

As it is highly essential that golf and cricket grounds should be mowed closer than ordinary lawns, we have described our **Golf Mower** on page 76. It cuts evenly.

WHITE CORN.

IMPROVED WHITE PROLIFIC.

THIS Corn is specially adapted for strong ground, exceedingly prolific, very showy, large ears, deep grain, slightly wrinkled, frequently grows two ears to the stalk. Produces heavy fodder; decidedly the best paying Corn for strong land.
Peck, 50c. Bus., $1.50. 4 Bus., $5.50.

MARYLAND WHITE.—This is an excellent white Corn, grows good-sized ears, and makes splendid meal. Produces better crops on average land than most any other variety.
Peck, 50c. Bus., $1.50. 4 Bus., $5.50.

BLUNT'S PROLIFIC. — Remarkably prolific, producing from 3 to 5 good-sized ears on a stalk and growing very large fodder; is frequently used for ensilage.
Peck, 50c. Bus., $1.50. 4 Bus., $5.50.

SOUTHERN SNOWFLAKE. — A well-known and very popular Corn through the South. Suitable for meal or feeding purposes; the best white Corn for poor land.
Peck, 50c. Bus., $1.50. 4 Bus., $5.50.

90-DAY CORN (Red Cob).—This is an elegant Corn for truckers and market gardeners, as it is a good seller as green Corn. Is suitable for either early or late crop.
Qt., 10c. Peck, 50c. Bus., $1.50.

HICKORY KING WHITE CORN.—Produces very large, broad, flat white dent grains, which are closely placed on a very slender cob.
Peck, 50c. Bus., $1.75.

SOUTHERN SHEEPTOOTH.-Specially adapted for ensilage. **$1.40 per bus.; in lots of 10 bus., $1.25 per bus. Special prices in large quantities.**

WHITE ENSILAGE CORN.
Specially adapted for Ensilage. **Bus., $1.50.**

Seed Wheat and Rye.

We can offer choice stocks of Seed Wheat and Rye, re-cleaned, and at reasonable prices. Write us August 1st for special prices for fall sowing.

OATS.

THIRTY-TWO POUNDS TO THE BUSHEL.

MARYLAND WHITE.—A very early and productive variety of extraordinary weight.
Per Bus. (32 Lbs.), $1.25.

WHITE RUSSIAN.— Per Bus., $1.00.

WELCOME.—An excellent variety, very productive and heavy. **Per Bus. (32 Lbs.), $1.00.**

GOOD SEED OATS.—Unnamed varieties.
At Market Prices.

Winter Turf Oats.

Perfectly hardy in the Southern and Middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine, heavy grain, weighing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices 1st of August.

YELLOW CORN.

IMPROVED MARYLAND YELLOW DENT.

OUR MARYLAND DENT CORN has taken first premium over all other field Corn wherever exhibited. The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much, and will stand drought better than a large stalk, and will yield 5 to 10 bushels per acre more than any other Corn generally planted.
Qt., 10c. Peck, 50c. Bus., $1.50.
4 Bus., $5.50.

EARLY LEAMING.—An early selected variety of yellow Corn, small grain, weighty and productive. Highly esteemed in Maryland and Pennsylvania. One of the earliest varieties of yellow Corn in cultivation.
Qt., 10c. Peck, 50c. Bus., $1.50.

GOLDEN BEAUTY.—A large, broad-grained yellow Corn, with ears of perfect shape and very small cob. The richness of color and the quality of the grain make it a very superior variety.
Qt., 10c. Peck, 50c. Bus., $1.50.
4 Bus., $5.50.

CHESTNUT GROVE YELLOW CORN.—This Corn was grown on Chestnut Grove Farm, Baltimore County, and the average yield from the whole crop was eighteen and one-sixteenth barrels to the acre. The ears are large, deep, medium-sized grain, and of beautiful color.
Peck, 50c. Bus., $1.75. 4 Bus., $6.00.

90-DAY YELLOW. — This is an excellent, quick-growing variety. May be planted after peas are taken off, and make a good crop. Largely used by truckers around Baltimore.
Qt., 10c. Peck, 50c. Bus., $1.50.

POP CORN.

The best kind for popping.
Lb., 10c. 4 Lbs., 25c. By mail, 20c. per Lb.

SEED BUCKWHEAT.

JAPANESE.—The best sort. The plants are large and vigorous, maturing their seed early, and resisting drought and blight remarkably well, while the grain is much larger and at the same time has a thinner hull than the common or the Silver Hull. Owing to its branching character, only one-half the seed is required per acre, while the straw is much stiffer and stands up better. We recommend this especially for well-drained or sandy land, and the dry climate of the Western plains. **$1.25 Per Bushel.**

SILVER HULL.—Write for prices.

BARLEY.

MANSHURY SPRING BARLEY.—This is the most productive variety we know, and having grown it ourselves, can recommend it. **By Express or Freight—Peck, 50c. Bus., $1.50.**

NEW BEARDLESS SPRING BARLEY.—Sow as soon as frost is out of the ground, the earlier the better. Being beardless, it handles as easy as oats, and makes a stronger feed. **By Express or Freight—Peck, 50c. Bus., $1.50. Bags, 18c.**

FALL BARLEY.—Write for prices.

INSECT DESTROYERS, ETC.

TOUGH ON FLIES

ONE application instantly and positively relieves horses and cattle from all annoyance from green heads, the dreaded Texas heel fly, as well as other flies, gnats and insects of every description for at least twenty-four hours. It improves the animal and abolishes the use of fly nets. Price—Quart, **50c.** ½ gallon, **90c.** Gallon, **$1.50.**

PERSIAN INSECT POWDER, OR BUHACH.

A most effective non-poisonous impalpable powder—so fine that it penetrates the innermost crevices—for worms, flies, aphis and almost all kinds of insects. It is very effectual, suffocating them by filling up the breathing pores. Price—Pound, **40c.**, or by mail, **55c.** ¼ pound, **15c.**

DRY.—Blow on with a bellows or gun.

SOLUTION.—Dissolve one ounce to three gallons of water, and apply with syringe or pump.

PARIS GREEN.

¼ pound, **10c.** Pound, **25c.** By mail, **40c.**

LONDON PURPLE.

Very poisonous, and equally as efficacious as Paris Green, and more soluble. Use in the same way as Paris Green. Pound, **25c.** By mail, **40c.**

PURE WHITE HELLEBORE.

The cheapest and best preparation for destroying rose slugs, currant worms, etc. ¼ pound, **10c.** Pound, **30c.** By mail **45c.** per pound.

FUMIGATORS.

No. 2—Height, 16 inches. For a house 12x40 feet.....Price, **$1.75**
No. 3—Height, 20 inches. For a house 15x100 feet.....Price, **2.25**

NICOTICIDE.

An infallible remedy for aphis, green fly and other greenhouse vermin.

No. 1—1 pint for 32,000 cubic feet of space **$2.50**
No. 2—½ pint for 16,000 cubic feet of space **1.25**
No. 3-4 ounces for 8,000 cubic feet of space **.70**
Lamp for evaporating, consisting of pan, wire frame and lamp..... **.50**

After lamp is lit and pan containing compound is placed over it, the **person should leave the house and not re-enter for at least two hours,** as the lamp will die out soon after the compound has evaporated.

ASBESTOS TORCH

An excellent device for burning caterpillar nests from trees. Price, **40c.**

TOBACCO STEMS.

Indispensable for fumigating green houses and conservatories for the destruction of green and black aphis and other insects. **5c.** a pound. Large quantities, 50 pounds, **3c.** a pound.

Dampen thoroughly a few hours before using, place about a half-pound over a handful of shavings in a fumigator, and light.

PINNER'S TOBACCO SOAP.—Pound, **40c.** By mail, **55c.**

TOBACCO DUST, FINE.

For green and black aphis, fleas, beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. Price—5 pounds, **20c.** 20 pounds, **50c.** 100 pounds, **$1.25.** 200 pounds, **$2.25.** For insects on plants, apply with powder duster or bellows. For worms or grubs in the soil apply liberally to the surface and rake in, or strew thickly in the drills before planting.

KEROSENE EMULSION (Liquid).

Ready for use by simply adding water, 25 to 50 parts to one. Quart, **40c.** Gallon, **$1.10.** 5 gallons, **$4.50.** This is strictly an insecticide for plant lice of all kinds, rose bugs, cabbage bugs, melon insects, fowl, human and animal lice, caterpillars, tobacco flies, peach lice, red spiders, green fly and all sucking insects.

KEROSENE EMULSION (A Paste).

Add water, 25 to 50 parts. Pound, **15c.** 5 pounds, **60c.**

LEMON OIL.

Perfectly safe and harmless to the tenderest foliage and roots. It effectually destroys mealy bugs by syringing or dipping. It also destroys scale, thrip, red spider, black and green fly, caterpillar, American blight, mildew, etc. Dilute with 50 parts water. ½ pint, **25c.** Pint, **40c.** Quart, **75c.** ½ gallon, **$1.25.** Gallon, **$2.**

NIKOTEEN.

Is the most powerful known insecticide, and will be found more economical and convenient than weak tobacco extracts. Price—Pint cans, **$1.50.** 5 cans, **$7.00.**

VAPORIZING PANS (for above)..... **50c.**
IRONS..... **50c.**
3 PANS, 3 IRONS and 1 HOOK..... **$3.00**

FLOWERS OF SULPHUR.

For the prevention and destruction of mildew on roses and other plants. Apply with bellows or gun. Pound, **10c.** 5 pounds, **40c.** 10 pounds, **60c.**

N. B.—If by mail, add **15c.** per pound for postage.

KNO-BUG.

KNO-BUG is put up in the form of a dry powder and is best applied with a gun or sifter, but can be used in water if desired. Kno-Bug sifters especially made for sifting Kno-Bug, but can be used for Paris Green or other powdered insecticides if desired. Price, **50c.**

It is better than Paris Green because safer and easier to handle, and does not injure the plant. It is a plant food, and acts as a tonic and stimulates the growth of the vines. It will not stunt the growth of the plant. It will prevent blight, scab and rot.

Our Special Prices.

Pound packages.....**$0.10**
3-pound packages..... **.25**
8-pound packages..... **.50**
20-pound boxes..... **1.00**

HAMMOND'S SLUG SHOT.

A non-poisonous powder, and a very popular insecticide; it requires no further mixing or preparation; easily applied, and not injurious or dangerous to animals, the person applying it, or fruits and vegetables treated. Very effectual in destroying potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. It will be necessary, however, to apply it occasionally, for it does not kill the eggs or prevent them from hatching. The best time to apply it is early in the morning, particularly for potato bugs, as they do not feed during the night. Apply with duster, bellows or gun. Ten to forty pounds is sufficient for an acre. 5-pound packages, **25c.** 10-pound packages, **45c.** 25 pounds, **$1.00.**

APHIS PUNK (Nikoteen).

Especially designed for use in private places and in houses without convenient furnaces for heating irons necessary for vaporizing Nikoteen, or Tobacco Extract. It is very effective as an insecticide. The Punk is lighted with a match and allowed to burn, which it does without flaming, at the same time giving off dense white fumes of nicotine that kill aphis and thrip very effectively. Per box, **60c.** Per 12 boxes, **$6.50.**

BUG DEATH.

DIRECTIONS FOR USING IN WATER.

Add 12½ pounds to 80 gallons of water, and mix thoroughly. Pound package, **15c.** 3-pound package, **35c.** 5-pound package, **50c.** 12½-pound package, **$1.00.** 100 pounds, **$7.00.** Add **17c.** per pound for postage.

PERFECTION SHAKER.

For applying Bug Death to potato vines. Price, **65c.**

RUBBER ATOMIZER.

For applying Bug Death to currant bushes, cucumber, squash and other small vines, bushes, house plants and poultry. Price..... **75** cents.

FAIRMOUNT WEED KILLER.

Excellent for cleaning gravel paths, drives and gutters of weeds, moss, etc. A great labor-saver. ½ gallon, **75c.**, makes 25 gallons treating liquid; gallon, **$1.25.** 5 gallons, **$6.00.** See also page 57.

WHALE OIL SOAP.

Makes an excellent wash for trees and plants where insects and eggs affect the bark, and for smearing on the trunks of trees to prevent worms crawling up. Price—Cake, **10c.** Pound, **15c.** 5 pounds, **60c.** 9 pounds, **$1.** Large quantities at special prices.

For insects on plants, dissolve one-quarter pound to a gallon of water; apply with syringe or spraying pump. For bark insects, etc., dilute with water to consistency of thick paint, and apply with brush.

"THYMO-CRESOL," ENGLISH COLD-WATER SHEEP DIP.

A gallon makes a hundred gallons for most uses. A world-famous dip, and, besides, is unexcelled as an internal and external remedy for animal wounds and skin diseases, for killing animal parasites, mixing with whitewash for trees, chicken-houses, kennels, etc. Price—Pint can, **45c.** Quart can, **60c.** Gallon can, **$1.75.**

BORDEAU MIXTURE.

A valuable and indispensable fungicide for grape growers, thereby insuring larger crops and finer grapes, and preventing failure. A sure cure and preventative for black rot, mildew and rust. Also of great value for other plants with kindred diseases. Per quart, **40c.** Per gallon can, **$1.10.** By express or freight only. Mix one part of this to 50 parts of water.

BORDEAU MIXTURE.

Ready for use by simply adding water. Price—Pound box, **15c.** Makes five gallons of spray. 5-pound box, **60c.** Makes 25 gallons of spray.

The letter "A" means annual.
The letter "P" means perennial.

ORDER BY NUMBERS.

Ten 5c. Papers, mailed, for 25c., or Four 10c. Papers for 25c.

6. ABUTILON (A).—Fine mixed.
Packet, 10 cents.

7. AGERATUM, MIXED (A).—Suitable for beds, and especially nice for cut flowers and bouquets. **Packet, 5 cents**

10. ALYSSUM (A).—The Sweet Alyssum has pretty little white flowers, useful in making small bouquets, and its fragrance, while sufficiently pronounced, is very delicate. The Alyssum grows freely from seed, blooms the whole season.
Oz., 25c. Packet, 5c.

11. ALYSSUM (A) (Tom Thumb).—Of dwarf, compact habit, each plant covering a circle from 15 to 30 inches. It will bloom when small and remain covered with bloom from spring to autumn.
Oz., 40c. Packet, 5c.

20. AMARANTHUS, MIXED (A).—Showy blooming plants, with long racemes of curious looking flowers and brilliant foliage; half hardy annuals.
Packet, 5 cents.

21. AMARANTHUS, TRI-COLOR (Joseph's Coat) (A).—Red, Yellow and Green foliage; 2 feet. **Packet, 5c.**

22. AMARANTHUS CAUDATUS (Love Lies Bleeding) (A).—Graceful and handsome flowers of blood-red hue.
Packet, 5 cents.

24. ANTIRRHINUM, DOUBLE MIXED (P).—One of the most useful and showy border plants. The recently improved varieties have large, finely shaped flowers of brilliant colors. Perennial.
Packet, 5 cents.

ASTERS.

25. ASTERS (A).—Choice mixed varieties. Well-known and beautiful flowers; should be in every garden. **Packet, 5 cents.**

26. ASTER, GERMAN (A).—All colors and shades of the best German sorts. Sow seed early and transplant to rich soil. **Packet, 5 cents.**

27. ASTER, TRUFFAUT'S PERFECTION (A).—A very favorite class; thrifty, upright growers; flowers large, almost perfectly round, with incurved petals. The florist's preference; 1½ to 2 feet. **Packet, 10 cents.**

28. PRINCESS SNOWBALL (A).—This is an entirely distinct variety of Aster. The flowers are pure white, and are formed of short, thickly set imbricated petals, there being about 25 to 30 on a plant. **Packet, 10 cents.**

29. MIGNON ASTER (A).—A splendid new class of Asters. The plants are semi-dwarf and bear in profusion flowers of a very double nature, the petals overlapping each other.
Packet, 10 cents.

30. VICTORIA ASTER (A).—The most beautiful of all Asters, bearing flowers of all colors and shades; the colors include many extremely delicate and gorgeous shades. Very double and four inches across; height 15 to 18 inches. **Packet, 10c.**

31. COMET ASTER (A).—This class of Asters has long, slender and curled petals, forming loose yet dense flowers of semi-globe shape, 3½ to 4½ inches in diameter, which resemble the Japanese Chrysanthemum.
Packet, 10c.

32. DWARF CHRYSANTHEMUM FLOWERED ASTER (A).—Grow 9 inches high; surpass all the dwarf varieties in size of flowers.
Packet, 10c.

33. SEMPLE'S BRANCHING ASTER (A).—A choice strain of American-grown Asters, which has, by careful selection, been brought to a high degree of excellence.
Mixed Colors, 10c.

34. SEMPLE'S BRANCHING ASTER (A) (White).—Very choice.
Packet, 10c.

35. BACHELOR'S BUTTON, or BLUE BOTTLE (A) (Centaurea Cyanus).—A very old favorite garden annual, with handsome flowers of various colors. It does best if sown in a hot-bed; half-hardy annuals; two feet.
Packet, 5 cents.

40. DOUBLE BALSAMS, CAMELIA FLOWERED (A) (Lady Slipper, or Forget-Me-Not).—The well-known Balsams are one of the finest summer blooming annuals, free bloomers and highly colored. By transplanting them once or twice, the flowers are apt to be more double. **Packet, 5 cents.**

41. BALSAM, PERFECTION WHITE (A).—This resembles the mixed Balsams in shape, but the flowers are of a pure white, and is the variety usually grown by florists. **Packet, 10 cents.**

45. CANDYTUFT MIXED (A).—Well-known favorite, hardy annuals; very pretty in beds or masses; useful for bouquets. Seeds may be sown in the fall for early flowering.
Packet, 5 cents.

46. CANDYTUFT, WHITE (A).—Treated and used same as the mixed.
Packet, 5 cents.

50. CALCEOLARIA DWARF (A).—This is a magnificent ornamental plant for green-house or conservatory, bearing in profusion pocket-shaped flowers of all colors, spotted and blotched in the most fanciful fashion. **Packet, 25 cents.**

53. CALENDULA, DOUBLE (A).—Very profuse dwarf bushy annuals, blooming continuously and profusely until frost; of easy culture, and suitable for summer garden or for growing in pots in winter.
Packet, 5 cents.

55. CANNA, MIXED (Extra Choice) (A).—The Cannas are desirable not only for the beauty of their spikes of scarlet flowers, but for their highly ornamental leaves. They make superb beds for the lawn. Soak the seeds thoroughly before planting, and keep in a warm spot. Very slow to germinate.
Packet, 5 cents.

33.—SEMPLE'S BRANCHING.

60. CANTERBURY BELLS, SINGLE MIXED (Campanula) (A).—A highly attractive class of plants, combining richness of color with stately growth; valuable for beds and borders. Sow early, and transplant in light, rich soil.
Packet, 5 cents.

61. CANTERBURY BELLS, DOUBLE MIXED (P).
Packet, 5 cents.

CARNATION.—(See Pinks) (P).
CASTOR OIL BEAN.—(See Ricinus) (A).

68a. CENTAUREA GYMNOCARPA.—Fine cut silver-gray foliage; 1½ feet.
Packet, 5c. 1-4 oz., 25c.

68. CENTAUREA CANDIDISSIMA.—Silver white; leaves broadly cut.
Packet, 5c. 1-4 oz., 25c.

FLOWER SEEDS THAT GROW.

Ten 5c. Papers Mailed for 25c., or Four 10c. Papers for 25c.

69. CENTROSEMA GRANDIFLORA (P).—A perfectly hardy perennial vine of rare beauty, which blooms in July from seed sown in April, and bears in great profusion inverted pea-shaped flowers of various colors. **Packet, 5c.**

70. CHRYSANTHEMUMS, SINGLE, MIXED (A).—Showy and effective garden favorites extensively grown for cut flowers. The hardy annuals are summer flowering border plants; good for pot culture and quite distinct from the autumn flowering varieties. **Packet, 5c.**

71. CHRYSANTHEMUM FRUTESCENS (A).—The Marguerite, or Paris Daisy).—Immense quantities are grown by French florists, and find a ready sale. It produces freely its white star-like flowers under the most favorable conditions. **Packet, 10c.**

75. CINERARIA (Dusty Miller) (P).—Fine for bedding, ribbon beds and margins; prized for their beautiful downy silvery foliage; half hardy perennials; two feet. **Packet, 5c.**

76. CINERARIA HYBRIDA (P).—Large flowered prize varieties; very attractive, free blooming plants, producing large and brilliant flowers. **Packet, 25c. 5 for $1.00.**

77. CINERARIA HYBRIDADWARF (P).—Large flowered, dwarf prize varieties; splendid strain. **Packet, 25c. 5 for $1.00.**

80. CLARKIA, MIXED (A).—An old favorite hardy annual plant, growing in any garden soil, and producing freely its cheerful flowers early in the season; 1¼ feet. **Packet, 5c.**

85. COCKSCOMBS (Celosia Cristata) (A).—Very popular annuals of the easiest culture, highly ornamental for decoration of the green-house, drawing-room and garden. Half hardy annuals. **Packet, 5c.**

86. COCKSCOMBS, GLASGOW PRIZE (A).—Immense showy dark crimson combs. **10c.**

88. COMSLIP (P).—Packet, 10c.

89. COLEUS (A).—Very choice plants with richly colored foliage of maroon, green, crimson, yellow, etc. **Pkt., 25c.**

90. CONCOLVULUS, TRI-COLOR MINOR (Dwarf Morning Glory) (A).—A beautiful class of hardy annuals, affording a large, showy mass of flowers from July to October. **Packet, 5c.**

93. COREOPSIS (Calliopsis) (P).—Very handsome and showy plants, with numerous flowers of brilliant colors, and of long duration in bloom.

93a. COREOPSIS LANCEOLATA (P)—IMPROVED (California Sunbeams). This is one of the finest of hardy plants, with large, showy, bright golden-yellow flowers, freely produced on long stalks, from June till frost; excellent for cutting; will thrive in almost any situation. **Packet, 5c. 1-4 oz., 40c.**

76.—CINERARIA HYBRIDA.

96. CYCLAMEN—PERSICUM—GIGANTEUM, MIXED (P).—Charming plants with beautiful foliage and rich colored fragrant flowers. **Packet, 25c. 5 for $1.00.**

97. DAISY, MIXED (P).—Well-known favorites, admirably adapted for edgings, borders and low beds, and it is also suited for growing in pots. Although they are perennials, they will flower the same season if seed is sown early in the house. **Packet, 10 cents.**

98. DAISY, LONGFELLOW (P).—This is a very pretty, large, double pink variety. **Packet, 10 cents.**

99. DAISY, SNOWBALL (P).—An unusually large-flowered variety, and produces very double, pure white flowers. **Packet, 10 cents.**

DAHLIA

One of our best autumnal flowering plants. Blooms until killed by frost; tuberous-rooted, half-hardy perennials; blooming the first year from seed, if sown early.

100. SINGLE MIXED (A).—Large, showy single flowers. **Packet, 5c.**

100a. CACTUS DAHLIA (A).—A most curious and desirable variety of many colors. **Packet, 5c.**

DIANTHUS.—(See Pinks).

100½. DIANTHUS—ORIENTAL BEAUTIES (P).—A magnificent strain of new large-flowering Dianthus from Japan. The colorings and markings are rich beyond description; very dainty and pretty with their charming ruffles and frills. Hardy and perpetual bloomers. **Packet, 10 cents.**

101. ETERNAL FLOWER (Helichrysum) (A).—These are very popular and desirable for winter decoration, bouquets, wreaths, etc. They should be cut when they come into full bloom, tied into bunches, and dried in the shade with their heads downward. **Packet, 5c.**

103. FEVERFEW (GOLDEN FEATHER) (Pyrethum Aureum) (P).—A highly ornamental golden yellow foliaged plant, unexcelled for bedding. Hardy perennial; 1½ feet. **Packet, 5c.**

105. FORGET-ME-NOT (Myosotis) (P).—Neat and beautiful little plants, with star-like flowers, succeeding best in a shady, moist situation; half-hardy perennials; blooming the first year from seed, if sown early. **Pkt. 5c.**

106 FOXGLOVE (DIGITALIS) (P).—A handsome and highly ornamental, hardly perennial plant of stately growth; fine for shrubberies and other half-hardy places; 3 feet.

107. GERANIUM (New Zonale) (A).—A grand strain of Geraniums, containing all shades of colors. **Packet, 10c.**

108. GODETIA—Finest Mixed (A).—Fine, profuse blooming hardy annuals. **Packet, 5 cents.**

DAISY.

109. GAILLARDIA (A).—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals. **Packet, 5 cents.**

110. GILIA, MIXED (A).—Very pretty dwarf plants, early, free blooming, fine for massing and rock work. Hardy annuals. **Packet, 5 cents.**

111. GLOXINIA (A).—A large flowering, choice mixed. Produces in great profusion large bell-shaped flowers of the richest variety of colors. **Packet, 5 cents.**

COSMOS.

Large flowering. Sow early in spring, and transplant when danger from frost is past. The flowers are borne profusely, and present a charming appearance when in full bloom, being covered through the autumn months with hundreds of showy blossoms. They are very easily raised and make a grand display.

94. TINTS OF DAWN COSMOS (A).—This new variety comes into full bloom in July, and continues a mass of bloom until cut down by severe frost. In addition to this, it is of dwarf growth, and large flowers. **Pkt., 10c. 1-4 oz., 50c.**

95. COSMOS, Mixed (A). 5c. 1-4 oz., 20c. Oz., 50c.

95a. COSMOS, Pink (A).—5c. **95b. COSMOS, White (A).—5c.** **95c. COSMOS, Crimson (A).—5c.**

95d. NEW MARGUERITE COSMOS (A).—One of the prettiest and daintiest varieties imaginable. **Packet, 10c**

SEE PLANT PAGES FOR ALL KINDS OF BEDDING AND OTHER PLANTS.

SELECTED FLOWER SEEDS.

Ten 5c. papers mailed for 25c. or Four 10c. papers for 25c.

112. HELIOTROPE (A).—These are deliciously fragrant flowers, remaining in bloom a long time; fine for pot culture or bedding; half-hardy annuals.
Packet, 5c.

115. HOLLYHOCK, CHATERS SUPERB MIXED (P).—This is one of the oldest inhabitants of our gardens; now ranks as one of the finest autumn flowers. **Packet, 5c.**

116. HOLLYHOCK, CHATERS DOUBLE WHITE (P).—Largely used by florists. **Packet, 10c.**

119. LANTANNA (A).—Of compact growth, and very profuse bloomers.
Packet, 5c.

120. LARKSPUR (Delphinum) (A).—One of the most showy and useful plants, possessing almost every requisite for adornment of the garden.
Packet, 5c.

HELIOTROPE.

FOUR O'CLOCK.

121. LARKSPUR EMPEROR (P).—Of symmetrical bushy habit, with a profusion of brilliant dark-blue, red-striped and tri-colored flowers. **Packet, 5 cents.**

LOBELIA.

A beautiful and popular flower, very desirable for pot culture, beds or hanging baskets, because of its trailing habits. Grows easily and does well in beds and rockeries. Bears a profusion of blue and white flowers. Annuals.

122. MIXED VARIETIES.—5c. (A).

123. CRYSTAL PALACE COMPACTA (A).—Rich deep blue. The finest for bedding.
Packet, 10 cents.

125. MARIGOLD, DOUBLE AFRICAN (A).—A well-known free-flowering plant, of easy culture, with rich and beautiful double various-colored flowers.
Packet, 5 cents.

126. MARIGOLD, DOUBLE FRENCH (A).—Of compact habit, with numerous bright, showy flowers. Very fine. **Packet, 5c.**

130. MARVEL OF PERU, or FOUR O'CLOCK (Mirabilis Jalapa) (A).—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same plant. 2 feet. **Packet, 5 cents.**

131. MATTHIOLA BICORNIS (A).—Very fragrant at night.
Packet, 5 cents.

133. MESEMBRYANTHEMUM CHRYSTALINUM (Ice Plant) (A).—Dwarf spreading plants of great beauty, blooming the entire summer, succeeding best in dry, sandy or loamy soil, and in a warm locality. It belongs to the half-hardy annuals. **Packet, 5c.**

134. MIMULUS.—The beautiful Monkey Flower.
Packet, 5c.

MIGNONETTE. (A)

(SELECTED STOCK).

135. MIGNONETTE—SWEET (Reseda Odorata).—A well known and universal garden favorite, and one that requires no extra instructions for growing. Hardy annuals.
Pkt., 5c. Oz., 15c.

136. MIGNONETTE—PYRAMIDAL. — (Large flowered).—The largest flowered of all Mignonettes. Annual. **Pkt., 5. Oz., 15.**

137. MACHET MIGNONETTE.—Well adapted for pot culture; dwarf pyramidal growth; bearing numerous flower stalks; one of the best.
Pkt., 10c. 1-4 Oz., 20c. Oz., 50c.

138. MIGNONETTE VICTORIA. (A)—A splendid new, compact-growing variety of dense pyramidal, growing about six inches high. The flowers are of a brilliant red, and are suitable for pot or garden. **Pkt., 10c.**

DEFIANCE MIGNONETTE.

139. ALLEN'S DEFIANCE. (A)—When grown under favorable conditions and with proper care, spikes will not only be of remarkable size—from 12 to 15 inches long—but deliciously fragrant; much more so than any other variety.
Pkt., 10c. 1-4 Oz., 25c. Oz., 75c.

140. GOLDEN MACHET MIGNONETTE. (A)—Distinct new variety of the well-known Matchet, of the same compact and robust habit, but differing from the type by its massive spikes of golden-yellow blossoms. **Pkt., 5c. 1-4 oz., 20c. Oz., 50c.**

NASTURTIUM. (A)

142. DWARF MIXED.—The dwarf variety of Nasturtium is among the most useful and beautiful of annuals for bedding, massing, etc., owing to their compact growth, richness of color and profusion of bloom; mixed colors.
Pkt., 5c. Oz., 10c.

143. DWARF NASTURTIUM—AURORA.—Blush white and salmon, blotched with garnet. **Pkt., 5c. Oz., 15c.**

144. DWARF NASTURTIUM—BEAUTY.—Bright scarlet, striped with yellow.
Pkt., 5c. Oz., 15c.

145. DWARF NASTURTIUM (Empress of India).—Very dark foliage, with deep crimson flowers.
Pkt., 5c. Oz., 25c.

146. DWARF NASTURTIUM (Golden King).—Brilliant yellow.
Pkt., 5c. Oz., 15c.

147. DWARF NASTURTIUM (King of Tom Thumb).—Brilliant yellow flowers, blotched with maroon, measuring three inches across.
Pkt., 5c. Oz., 15c.

148. DWARF NASTURTIUM (Ruby King).—Light ruby red.
Pkt., 5c. Oz., 15c.

149. DWARF NASTURTIUM (Cloth of Gold).—Golden yellow foliage, light scarlet flowers.
Pkt., 5c. Oz., 20c.

150. KING THEODORE—DWARF.—Black-brown foliage.
Pkt., 5c. Oz., 15c.

151. CRYSTAL PALACE GEM.—Sulphur, maroon spot.
Pkt., 5c. Oz., 15c.

TALL NASTURTIUM.—(See 310).

OXALIS—ANNUALS.

153. OXALIS.—Pretty little half-trailing annuals for hanging baskets. Mixed annual sorts.
Packet, 10 cents.

PANSIES—ANNUALS.

OUR STRAIN OF PANSIES IS THE EQUAL OF ANY.

156. PANSY GIANT TRIMARDEAU.
Remarkable for the extra large size of the flower and an endless variety of beautiful shades.
Pkt., 10c. 1-8 Oz., 40c.

159. GIANT KING OF BLACK.
Pkt., 10c. 1-8 Oz., 40c.

160. GIANT EMPEROR WILLIAM.
Brilliant blue, with violet eye.
Pkt., 10c. 1-8 Oz., 40c.

161. GIANT LORD BEACONSFIELD.
Deep violet, shading to white.

162. GIANT SILVER-EDGED.

163. GIANT YELLOW GEM.
Pkt., 10c. 1-8 Oz., 40c.

158. PANSY. (Bugnot's Exhibition).
A celebrated strain of extra large size, beautiful colors, with handsome broad blotches, and finely penciled with stripes of delicate hue. The ground colors are generally dark, which, with light penciling and blotches, make a magnificent flower. They are a small seeder.
Packet, 25 cents.

155. PANSY HEARTSEASE.
Choice mixed. An old but universally admired plant, producing an endless variety of color, marking and texture. They may be treated as annuals, as they flower the first season from seed; 6 inches. **Pkt., 5c. 1-8 Oz., 35c.**

157. G. & T. CO.'S EXTRA MIXED.
This mixture, containing the finest blotched varieties, is grown and selected with special care, and has given the most satisfactory results to both florists and amateurs for the past two years.
Pkt., 15c. Two Pkts., 25c. 1-8 Oz., 60c.

162. PASSION FLOWER (Southern Beauty).—A most interesting and well-known order of climbers, bearing singularly beautiful flowers. **Packet, 10c.**

(A) Annual. (P) Perennial

THE BEST FLOWER SEEDS.

Ten 5c. Papers mailed for 25c. or Four 10c. Papers for 25c.

PETUNIAS.

ANNUALS.

165 PETUNIA.—Favorite, half-hardy perennials, succeeding well in any rich soil. For the brilliancy and variety of the colors and the long duration of their blooming period, they are indispensable in any garden. **Packet 5c.**

166. SINGLE-FRINGED MIXED PETUNIA.—Large flowers, four to five inches across, of every hue, each flower being beautifully fringed. **Pkt., 25c.**

167. DOUBLE PETUNIA.—About 30 per cent. will produce double flowers. **Packet, 25 cents.**

168. PETUNIA — Double-Fringed Mixed.—The flowers of this sort being double, together with being fringed, are very beautiful. **Packet, 25c.**
Plants of Double Petunia furnished on application. **10c. each. $1.00 doz.**

PHLOX DRUMMONDII.

175. PHILOX DRUMMONDII (A).—A most brilliant and beautiful hardy annual, about one foot high, well adapted for bedding, making a dazzling show through the whole season. It succeeds well on almost any soil.
Packet, 5 cents.

167. PHILOX DRUMMONDII—(Nina Compacta) (A).—Very fine mixed. This new strain is of dwarf, compact habit, and makes desirable pot plants; also excellent for ribbon lines and massing.
Packet, 10 cents.

PINKS. (P)

180. PINK—CARNATION, or PICOTEE. — Choicest Double Mixed Dianthus Caryophylus). — Carnation and Picotee Pinks are generally favorites for their delicious fragrance, richness of colors and profuse bloom. Perennial.
Packet, 10 cents.

181. PINK, CARNATION (Riviera Market, or Gilland).—This is the only variety that will produce yellow flowers the first season. The mixture we offer contains a magnificent variety of colors and shades, having among them flowers of canary yellow, and also striped yellow. They will thrive either in onen ground or pots. **Pkt., 25c.**

182. PINK CARNATION (Marguerite) (P).—Will produce flowers in a few weeks from seed. Profuse bloomers, producing very double flowers of all shades of red, pink, white and variegated. Will bloom all summer until frost or indoors in winter in pots.
Packet, 10 cents.

185. PINK—CHINA (Dianthus Chinensis) (P).—Free bloomers, and a general favorite for bouquets; also a useful bedding plant.
Packet, 5 cents.

188. PINK—HEDDEWIGII (P)—Beautiful double flowers in a great variety of colors, with fringed white edges.
Packet, 5 cents.

189. PINK—JAPAN (P).—Beautiful double flowers, mixed, of various colors, with the outer edges fringed and nearly white.
Packet, 10 cents.

195. PORTULACA (Mexican Rose) (A).—One of the finest hardy annual plants, of easy culture, thriving best in rather rich, light loam or sandy soil; the single-flowering varieties are large and brilliant, of the richest shades of color, and produced throughout the summer in great profusion; fine for massing in beds or edgings of rock work.
Packet, 5 cents.

196. DOUBLE PORTULACA (A).
Packet, 10 cents.

CARNATION.

200. POPPY-CARNATION (Papaver) (A).—A showy and easily cultivated hardy annual, with large brilliant colored flowers, growing freely in any garden soil.
Packet, 5c.

201. POPPY—PEONY FLOWERED (A).—A magnificent species, large, showy, double globular flowers, resembling Peonies in shape. **Packet, 5c.**

202. SHIRLEY POPPY (A).—These beautiful Poppies are generally single or semi-double. The colors, extending from one extreme to the other, are so varied that scarcely two are alike, while many are striped and blotched. The blooms, if cut when young, will stand for two or three days. **Packet, 5c.**

TULIP POPPY.

203. TULIP POPPY (A).—A magnificent species from Armenia. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet. **Packet, 5c.**

204. ICELAND POPPIES, MIXED (A). Although hardly perennials, these Poppies bloom the first season from spring-sown seed. The fragrant, elegant, crashed satin-like flowers are produced in never-ceasing succession from the beginning of June to October. **Packet, 5c.**

205. POPPY—IRRESISTIBLE (A).—A rare and beautiful Poppy, with immense flowers. Color, an exquisite rose. **Pkt.,5c.**

210. ENGLISH PRIMROSE (Primula Vulgaris) (P).—No collection of spring flowers is complete without a few of these charming little plants. A little covering in the late fall will protect them from the severe weather of winter, and the great number of flowers produced will more than repay you the extra trouble. They are not as generally grown as they should be. **Packet, 10c.**

211. CHINESE PRIMROSE (Primula Fringed) (A).—This variety is much prettier than the English, being fringed and of the most beautiful colors. They differ from each other like the double and single Petunias. **Packet, 25c.**

212. RICINUS, MIXED VARIETIES (A).—Ornamental plants of stately growth and picturesque foliage; fine for lawns, massing or center plants for ribbon beds; half-hardy annuals. **Packet, 5c.**

212½. RICINUS ZANZIBARIENSIS, MIXED (A).—Their immense leaves and gigantic plants exceed all other varieties.
Packet, 5c.

213. SCABIOSA—GRANDIFLORA (P). A wonderful improvement over the old variety; bears beautifully formed flowers three inches in diameter. **Packet, 10c.**

215. SCARLET SAGE (Salvia Splendens) (A).—Tall, erect, green foliage. A favorite greenhouse and bedding plant, bearing long spikes of flowers in great profusion from July to October; half-hardy perennial, blooming the first year from seed, 3 feet. **Pkt., 5c. 1-4 oz., 75c**

216. SCARLET SAGE—CLARA BEDMAN (Bonfire) (A).—Dwarf, green foliage, flowers close to the ground. The finest Salvia ever introduced
Packet, 5c. 1-4 oz., 75c.

(A) Annual. (P) Perennial

FLOWER SEEDS THAT GROW.

Ten 5c. Papers Mailed for 25c. or Four 10c. Papers for 25c.

SWEET WILLIAM.

220. SENSITIVE PLANT (Mimosa) Curious and interesting plants, with pinkish-white flowers; the leaves close in and droop when touched or shaken; tender annual. Packet, 5c.

SNAP DRAGON.
(See Antirrhinum.)
Packet, 5c.

230. TEN WEEKS STOCKS (Gilliflower).
A world-wide favorite, brilliant and varied in color, equally well adapted for massing, bedding, edging or pot culture. Very profuse bloomers. Should be grown in rich soil. Packet, 5c.

231. STOCKS — SNOWFLAKE IMPROVED. — A beautiful dwarf-growing variety; very large, double, snow-white flowers. Our seed of this variety is grown by a specialist, and will produce a large percentage of double flowers. Packet, 10c.

235. SUNFLOWER (Helianthus) (A).—Remarkable for the stately growth, size and brilliancy of their flowers, making a very good effect among shrubbery and for screens. The seed is also good for feeding poultry. Packet, 5c.

237. SWEET ROCKET (Hesperis) (A).—Very pleasing, early spring flowering, profuse blooming plants, with fragrant flowers, growing freely in any light, rich soil. Packet, 5c.

240. SWEET WILLIAM (Dianthus Barbatus) (P).—A well-known, free-flowering popular favorite; the great improvements upon the old varieties made within the last few years have rendered it still more desirable. Hardy perennials. Packet, 5c.

243. SWEET VIOLET (A).—Deservedly much in demand, because of their profusion of bloom and delicate, sweet odor. Packet, 10c.

244. TORENIA (A).—Charming plants for pot-culture, vases or hanging baskets. They succeed well also in the open ground in summer, and are very attractive in beds or masses. Packet, 5c.

245.—MAMMOTH VERBENA (A).—One of the most popular and useful bedding plants. Verbenas delight in sunny situation, rich soil and thorough cultivation. Packet, 5c. Ounce, **$1.00.**

247. VINCA (A).—Small, bushy plants, producing in quantities round single flowers the first season, if sown early. They may be potted and kept all winter.

250. VINCA ROSA (A).—Rose with dark eye. Packet, 5c.

251. VINCA ALBA (A).—White, with crimson eye. Pkt., 5c.

255. WALLFLOWER, DOUBLE (A).—Well known, deliciously fragrant plants, with large spikes of double flowers, similar to the Gilli. lower. Succeed in light, rich soil, in a moist atmosphere. Perennials. Packet, 10c.

258. ZINNIA ELEGANS (Youth and Old Age) (A).—This is one of the most brilliant of annuals, and has long been a general favorite. The flowers are large, finely formed, in great variety of colors, and continue to bloom the entire season. Half-hardy annuals. Packet, 5c.

259. ZINNIAS CURLED AND CRESTED (A).—New, odd and superb. Petals twisted, curled and crested into fantastic contortions and graceful forms. A magnificent variety of colors. Packet, 5c.

260. ZINNIA — DOUBLE POMPON (A).—Long cone-shaped flowers, very fine. Packet, 5c.

261. ZINNIA—ZEBRA FLOWERED (A).—Packet, 5c.

GENERAL LIST OF CLIMBERS.

AMPELOPSIS VEITCHII also can be furnished as a plant. (See Nursery pages.)

270. BALSAM APPLE (Momordica) (A).—Very curious trailing vines, with ornamental foliage; fruit golden yellow; when ripe, opens, showing the seeds and its brilliant carmine interior. Packet, 5c. Ounce, **$1.00.**

272. BALLOON VINE (Love in a Puff) (A).—A rapid growing plant; succeeds best in light soil and warm situation; flowers white; half-hardy annual. Packet, 5c.

275. CANARY BIRD FLOWER (Peregrinum) (A).—With yellow, canary-like flowers; very ornamental and beautiful foliage; half-hardy annual. Packet, 5c.

276. COBEA SCANDENS (P).—A beautiful, rapid-growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows twenty to thirty feet high. Packet, 10c. Ounce, 40c.

278. CYPRESS VINE, RED (Ipomea Quamoclit) (A).—One of our most popular vines, with very delicate, fern-like foliage, and masses of beautiful, small, star-shaped flowers. Sow last of May; fifteen feet. Packet, 5c.

279. CYPRESS VINE, WHITE (A).—Usually grown with the red, making a handsome effect. Packet, 5c.

282. MAURANDIA (Barclayana) (A). — These charming climbers cannot be too highly praised for their beautiful flowers and foliage. They are admirably adapted for hanging baskets, vases or trellis work. Packet, 5c.

285. MIXED GOURD (Cucurbita) (A).—Rapid growing, interesting plants, with ornamental foliage and varieties of singular shaped fruit; annual. Packet, 5c.

286. NEST EGG GOURD (A).—White fruit, shaped like an egg. Used as a substitute for nest eggs. Packet, 5c.

287. DISH CLOTH GOURD (A).—Packet, 5c.

288. DIPPER GOURD (A).—Packet, 5c.

290. MOCK ORANGE (P). — Fruit shaped like an orange. Packet, 5c.

295. HEAVENLY BLUE IPOMEA (A).—The flowers are in large airy clusters, and of that lovely blue so rarely seen. Flowers four to five inches across. Packet, 5c.

300. MORNING GLORY (Convolvulus Major.)—One of the most free flowering and rapidly growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals. Pkt., 5c.

301. NEW BRAZILIAN MORNING GLORY.—Packet, 5c.

302. GIANT JAPANESE MORNING GLORY (See Cut).—This plant has been developed to such a state of perfection that it now produces flowers of immense size and almost endless variety of color and markings. Some of the flowers are brilliant red, or rich blue self-colored; others are equally brilliant, with broad margins of clear white. Some blossoms are striped and dotted with blue or red on white or lemon-yellow ground; others clouded with blue and red; in fact, one may expect to find some new and exquisitely beautiful markings every morning. Not only are the flowers varied, but the foliage is equally so; some of it comes plain green, and part is mottled with white and shades of yellow or yellowish green. Vines grow 30 to 40 feet high. Packet, 10c.

JAPANESE MORNING GLORY

305. MOON FLOWER Ipomoea Noctiflora
Charming and popular blooming climbers; of rapid growth and showy effects; warm, rich soil, with a sunny exposure, suits them.
Packet..... 5c.

310. TALL NASTURTIUM Tropaeolum Major
Elegant, profuse flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for pickling.
Packet..... 5c.
Ounce..... 10c.

320.—SCARLET RUNNERS.
Very handsome climbing Beans, with bright scarlet flowers.
Packet..... 5c.

326. SMILAX.
Charming climber for greenhouse or window gardens.
Packet..... 5c.
½ ounce..... 25c.
Ounce..... 40c.

For General List of Plants, Flower and Vegetable, See Plant Pages.

SWEET PEAS.

TEN 5c. PAPERS OR FOUR 10c. PAPERS MAILED FOR 25c.

CULTURE.

SWEET PEAS should be sown in drills as early as possible in spring, in rich, friable soil. Prepare the bed thoroughly, working in a quantity of well-rotted manure, if it can be done, making a furrow 4 to 6 inches deep. In this sow the seed and cover 2 inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer. As fast as the flowers come into full bloom or fade they should be cut off, for if the pods are allowed to form the plants will stop blooming.

CLASSIFIED VARIETIES AS TO COLOR.

If you want white, select from numbers 356, 373, 387, 402. Pinks, 350, 371, 391, 420, 427. Orange and salmon, 395, 406. Scarlet, 377, 386. Maroon, 360, 423. Yellow, 400. Striped varieties, 353, 411, 424. Pink or red, with white wings, 357, 358.

350. ALICE ECKFORD.—Standard, rich, creamy, tinted pale pink. Wings pure white. Ounce, **5c.** ¼ pound, **15c.**

362. AMERICA.-Large, bold flower; white striped with blood-red. Ounce, **5c.** ¼ pound, **15c.**

351. APPLE BLOSSOM.—Bright rose and pink; beautiful. Ounce, **5c.** ¼ pound, **15c.**

352. AURORA.—The color effect is gorgeous; both standard and wings are flaked and striped on a white ground with bright orange salmon. Ounce, **5c.** ¼ pound, **15c.**

363. BLACK KNIGHT.—Extra large, well-expanded flowers of glossy maroon. Ounce, **5c.** ¼ pound, **15c.**

356. BLANCHE BURPEE.—Pure white; very large flower. Ounce, **5c.** ¼ pound, **15c.**

357. BLANCHE FERRY.—Popular color standard, brightest pink; keel and wings white. Ounce, **5c.** ¼ pound, **15c.**

358. BLANCHE FERRY.—Extra early. Oz., **5c.** ¼ lb., **15c.**

359. BLUSHING BEAUTY.-Flowers of largest expanded form, perfect in shape, and of very good substance. Color a delicate, soft pink. Ounce, **5c.** ¼ pound, **15c.**

360. BOREATTON.—A very fine dark Pea, with bold, stout flowers; color deep maroon. Ounce, **5c.** ¼ pound, **15c.**

361. BUTTERFLY.—New, and ranks among the very best of this unrivaled class of plants. Color lavender blue, shading into white on the lower petals. Ounce, **5c.** ¼ pound, **15c.**

364. CAPTAIN OF THE BLUES.—Large shell-formed flowers, purplish blue; wings deep blue. Ounce, **5c.** ¼ pound, **15c.**

365. COQUETTE.—Rosy cream standard; cream wings. Ounce, **5c.** ¼ pound, **15c.**

366. COUNTESS OF RADNOR.—Delicate lavender, wings delicately striped with rose. Ounce, **5c.** ¼ pound, **15c.**

371. ELIZA ECKFORD.—Standard rose, wings delicately striped with rose. Ounce, **5c.** ¼ pound, **15c.**

372. EMILY ECKFORD.—Standard heliotrope, suffused with blue; wings deep blue. Ounce, **5c.** ¼ pound, **15c.**

373. EMILY HENDERSON.—Very early; color pure white; fragrance most delicious. The plants are robust, branchy, of compact habit; flowers large, broad and round, and its abundance of bloom is phenomenal. Ounce, **5c.** ¼ pound, **15c.**

374. FIREFLY.—Intense, glowing crimson. Oz., **5c.** ¼ lb.,**15c.**

381. GAIETY.—Standards white, striped and flaked with rosy lilac; wings delicate blush. Ounce, **5c.** ¼ pound, **15c.**

367. GORGEOUS.—Flowers very large; coloring rich, glowing and effective. Ounce, **5c.** ¼ pound, **15c.**

380. GRAY FRIAR.—Large, shell-shaped flower, white clouded, and minutely dotted with reddish lilac. Ounce, **5c.** ¼ pound, **15c.**

382. HER MAJESTY.—Beautiful, soft, rosy pink. Ounce, **5c.** ¼ pound, **15c.**

385. INDIGO KING.—A dark maroon standard, and clear indigo blue wings. Ounce, **5c.** ¼ pound, **15c.**

386. INVINCIBLE SCARLET.—Flowers of intense and brilliant scarlet pink, of the largest size. Ounce, **5c.** ¼ pound, **15c.**

391. KATHERINE TRACEY.—Soft, brilliant pink. Ounce, **5c.** ¼ pound, **15c.**

394. LADY BEACONSFIELD.—The standards are of light salmon pink, wings pale primrose yellow. Oz., **5c.** ¼ lb., **15c.**

395. LADY PENZANCE.—One of the most beautiful of Eckford's introductions. The standard is a beautiful laced pink, touching orange, while the wings are a darker and purer pink. Ounce **5c.** ¼ pound, **15c.**

396. LOTTIE ECKFORD.—New and a free bloomer, color lavender, shaded with pink and white. Very handsome. Ounce, **5c.** ¼ pound, **15c.**

397. LOTTIE HUTCHINS.—Daintily flaked with pink on cream ground, making a rich and lovely effect. The flowers are of well-expanded grandiflora type, large in size and finely formed, borne on heavy, substantial stems.

398. LOVELY.—The most beautiful soft-shell pink; grand flowers of large size.

399. MARS.—Bright, fiery crimson, deepening with age; a large, round, expanded standard.

400. MRS. ECKFORD.—Color a peculiarly delicate shaded primrose yellow. Decidedly pretty.

401. MRS. GLADSTONE.—On opening, the flowers are buff and soft pink, changing to a beautiful pale blush. Standard pink, deepening in color at the base, and wings flesh-tinted.

402. MRS. SANKEY.—Black seeded. Large white flower, changing to blush.

406. ORANGE PRINCE.—Bright orange pink, flush scarlet; wings of rich rose, veined with pink.

408. PRIMA DONNA.—Lovely soft rose pink, of large size and fine form; a gem.

409. PRIMROSE.—Distinct as the nearest approach to yellow in Sweet Peas. Standard and wings of a pale primrose yellow color.

410. PRINCESS BEATRICE.—Flowers of a clear and beautiful carmine rose, slightly shaded.

411. PRINCESS OF WALES.—Color, white ground, shaded and tinged with mauve.

412. PRINCESS VICTORIA.—Standard, dark cherry; wings, mauve pink, and slight lines of rose.

416. QUEEN OF THE ISLES.—Scarlet mottled and flaked with purple and white.

419. RED RIDING HOOD.—Standard and wings are a rosy pink, shading to bluish white at calyx.

420. ROYAL ROBE.—Standards a rich, but delicate pink, wings a soft bluish pink.

422. SHAHZADA.—Flowers of large size and fine, expanded form; coloring rich dark maroon, with a tint of purple in the centre of the standard and the inner portion of the wings.

423. STANLEY, OR BLACK KNIGHT.—A deep maroon; a large and very handsome flower of the finest form and abundance.

424. THE SENATOR.—Large flowers, shaded chocolate and bright brown, and striped on a creamy-white ground-color; mottled and blotched in every conceivable manner.

427. VENUS.—Salmon buff; the standards delicately shaded with rosy pink.

430. G. & T. CO.'S EXTRA FINE MIXED.—This is a splendid mixture of our own, which includes nearly all the above varieties. Ounce, **5c.** ¼ pound, **15c.** Pound, **35c.**

431. ECKFORD'S LARGE FLOWERING MIXED SWEET PEAS.—Contains some of each of our entire list of Eckford's varieties. Ounce, **5c.** ¼ pound, **15c.** Pound, **35c.**

CUPID
DWARF SWEET PEAS.

435. PINK CUPID.—Standard bright rose pink; wings either pure white or blush. The seed is black and germinates readily; a thrifty grower and continuous bloomer. Pkt., **5c.** ½ oz., **20c.**

436. WHITE CUPID.—Pure white flowers. Pkt., **5c.** Oz., **20c.**

437. BEAUTY CUPID.—Packet, **5c.** Ounce, **20c.**

438. PRIMROSE CUPID.—Packet, **5c.** Ounce, **20c.**

439. ALICE ECKFORD.—Packet, **5c.** Ounce, **20c.**

BULBS FOR SPRING PLANTING.

CALLA LILY.

LILIES

AURATUM (The Gold-Banded Lily of Japan).

Immense white flowers, each petal marked with a wide gold band and spotted with maroon; very sweet fragrance and free blooming. It is considered by many the finest Lily in cultivation.

Large Bulbs.— 15c. each, $1.00 per doz.

Extra Large Bulbs. 15c. each. $1.25 per doz. Mailed free.

LILIUM SPECIOSUM RUBRUM.

White, with rose centre. Each, 15c. $1.00 per doz.

LILIUM SPECIOSUM ALBUM.—Pure white. Each, 15c. $1.25 per dozen. Mailed free.

WHITE CALLA.—To aid profuse blooming, keep them dormant from the middle of June to last of August, re-pot them in good, rich soil, using a four to six-inch pot. Give water, light and heat in abundance, and the result will be most satisfactory.

Large Bulbs—10c. each. By mail, 15c.
Extra Large Bulbs—15c. each. By mail, 25c.

BEGONIAS TUBEROUS ROOTED.

THE Tuberous-Rooted Begonias are among the handsomest of our summer flowering bulbs. They are not grown to the extent they should be; they require no more care than Geraniums; have as fine a range of color, and will bloom continuously throughout the summer, even when Geraniums droop through lack of moisture and fail to unfold their flowers. Planted either in the rockery or flower border, they rival the Geraniums with their rich and varied colors, ranging from the most delicate shade of yellow and salmon to the most striking crimson and scarlet.

MIXED SINGLE—10c. each. $1.00 per dozen.
MIXED DOUBLE—15c. each. $1.50 per dozen.

CALADIUM ESCULENTUM.

GLADIOLUS.

If wanted by mail, add 10c. per dozen for postage.

THE cultivation of the Gladiolus is very simple, as they will thrive in any good garden soil, but will amply repay one for careful cultivation.

A succession of bloom may be had from July to September by planting at intervals from April to June.

OUR GLADIOLUS

Are from one of the largest growers in the country, and one who has the finest assortment to be had either in this country or Europe; therefore, we claim them to be unexcelled as to quality.

MIXED (All Colors).

Dozen, 25c. $1.25 per 100.

WHITE AND LIGHT COLORS.

Dozen, 30c. $1.75 per 100.

GLADIOLUS.

EXTRA WHITE AND LIGHT VARIETIES.—All first-class varieties, made up largely from best-named sorts, including ten per cent. of Snow White. 10c. each. 50c. per dozen. $3.50 per hundred.

CHILDSI MIXED.—Extra large and fine. 50c. per dozen. $3.25 per 100.

LIMONII (MIXED).—Extra fine. 40c. per doz. $2.00 per 100.

TUBEROSES.

ONE of the most fragrant and popular of the summer flowering bulbs. May be started early in hot beds or pots, or planted in open ground after first day of May.

Each	5c.
Dozen	25c.
Per 100	$1.00

By Mail, 35c. per dozen.

MADEIRA VINE ROOTS.

Each	5c.
Dozen	30c.

CALADIUMS.

ELEPHANT'S EARS.

THE Caladium Esculentum is one of the handsomest of the ornamental-leaved plants. It will grow in any good garden soil, and is of the easiest culture. To gain the best result it should be planted where it will obtain plenty of water, and an abundance of rich compost. Roots planted in the spring will make good growth in the summer, and in the fall they should be taken up and stored in a cellar. Leaves three feet or more in length and nearly as broad. There is nothing so good as this Caladium for a grand bed of foliage in the garden.

FIRST SIZE BULBS.
5c. each. By mail, 10c. 50c. per dozen.

EXTRA LARGE BULBS.
10c. each. By mail, 15c. $1.00 per dozen.

DAHLIA BULBS.
By mail, single bulb, 10c., postpaid. Clumps 10c. each. $1.00 per dozen.

PLANT DEPARTMENT

VEGETABLE PLANTS

WE are now prepared to furnish all kinds of Vegetable and Flowering Plants at short notice. All of our plants are grown specially for us, and we are in a position to offer our patrons THE MOST COMPLETE ASSORTMENT TO BE FOUND IN THIS COUNTRY IN ANY ONE ESTABLISHMENT, AND AT PRICES AS LOW AS SAME QUALITY OF GOODS CAN BE OBTAINED ANYWHERE. Want of space forbids naming all varieties. Cash must accompany all orders. We do not ship plants C. O. D.

BEET.—Eclipse, Crosby, Egyptian. **40c.** per 100; **$2.00** per 1000. By express not prepaid. Add **10c.** per 100 if by mail. Special prices on 10,000 lots.

BRUSSELS SPROUTS.—**50c.** per 100, **$2.50** per 1000. By express not prepaid. Add **10c.** per 100 if by mail.

CABBAGE.—All the leading varieties. From December 1st to May 1st frame grown. **40c.** per 100; **$1.25** per 500; **$2.00** per 1000. Field grown, from May 1st to December 1st. **30c.** per 100; **$1.25** per 500; **$1.75** per 1000. By express not prepaid. Add **10c.** per 100 if by mail. Special prices in 10,000 lots.

CAULIFLOWER.—Early Snowball, **75c.** per 100; **$4.00** per 1000. By express not prepaid. Add **10c.** per 100 if by mail.

CELERY.—All the leading varieties. **40c.** per 100; **$1.25** per 500; **$2.00** per 1000. By express not prepaid. Add **10c.** if by mail. Special prices in 10,000 lots.

EGG PLANT.—Imp. Baltimore from seed bed, **50c.** per 100; **$4.00** per 1000. Pot grown—**50c.** per dozen; **$4.00** per 100. By express not prepaid. Add **10c.** per 100 if by mail.

KOHL RABI.—Early white Vienna. **50c.** per 100; **$3.00** per 1000. By express not prepaid. Add **10c.** per 100 if by mail.

LETTUCE.—Ready at all seasons. All the leading varieties. **30c.** per 100; **$1.25** per 500; **$2.00** per 100. By express not prepaid. Add **10c.** per 100 if by mail. Special prices in large quantities.

PARSLEY.—For fall planting. Large strong roots. **$1.00** per 100; **$4.00** per 1000. By express not prepaid. Add **10c.** per 100 if by mail.

PEPPER.—**20c.** dozen; **50c.** per 100; **$3.00** per 1000. By express not prepaid. Add **10c.** per 100 if by mail.

SWEET POTATO.—**50c.** per 100; **$1.50** per 500; **$2.75** per 1000. By express not prepaid. Add **10c.** per 100 if by mail.

TOMATO.—All the leading varieties. Ready February 1st, small plants for transplanting—**$1.50** per 1000. Ready April 1st, cold frame plants—**40c.** per 100; **$1.25** per 500; **$2.00** per 1000. By express not prepaid. Add **10c.** per 100 if by mail. Special prices in quantities. Cash must accompany all orders for plants.

ALL OF ABOVE SEED BED PLANTS.

GREENHOUSE POTTED PLANTS.

Prices on 100 and 1000 By Express Not Prepaid.

ABUTILON SOUV. DE BONN.

ABUTILONS.

(FLOWERING MAPLE.)

ECLIPSE, OR LEOPARD.—Foliage striped and mottled with yellow and green. Flowers orange, with crimson throat.

GOLDEN FLEECE.—A fine golden yellow flower, very free blooming.

SAVITZII.—A Japanese variety that is bound to become a popular decorating plant, as its perfectly variegated green and white foliage contrasts nicely with any other plants with which it may be placed. The growth is dwarf and very compact, making a fine pot plant for house culture.

SANTANA.—Deep red, fine flowers.

SOUVENIR DE BONN (See Cut).-Beautifully variegated leaves of good size, regularly and evenly marked with white and green; orange-colored flowers.

Prices of Any of the Above Plants:

Each..... **10c.** Per dozen.....**$1.00**
Per 100, by express not prepaid..... **6.00**

ACALYPHA.

MACAFEANA.—A handsome variegated foliage bedding plant, which may be used in connection with Coleus, Crotons or other foliage plants for sub-tropical bedding.

SANDERI (Comet Plant.)—A distinct and novel flowering plant of strong, free growth, with large dark green foliage, from the axils of which thick ropelike spikes of velvety-crimson flowers are gracefully suspended. **10c.** each.

AGERATUM.

STELLA GURNEY.

Dwarf Blue.....**75c.** dozen.
Dwarf White.....**75c.** dozen.

ALTERNANTHERA.

A beautiful class of dwarf plants growing only 6 inches high, admirably adapted for forming letters, ribbon lines, edgings or beds. Can be cut with shears, and like lawn grass grows thicker and stronger. Initials marked on the lawn with these plants is very pleasing.

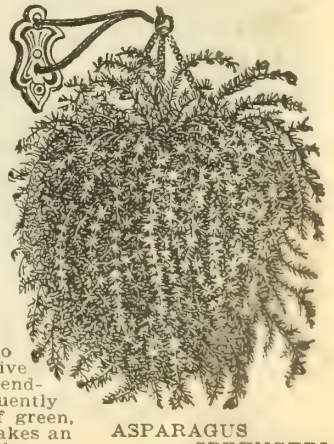
AUREA NANA.—Bright golden yellow.
BRILLIANTISUM.—New. Brilliant scarlet; when worked in the lawn or with other plants the effect is very striking.
PARONYCHOIDES MAJOR.—The best red. **ROSEA NANA.**—Rosy crimson.
VERSICOLOR.—Chocolate, green and red.
Plants, each..... **10c.** Per dozen.....**$1.00**
By express, not prepaid, per 100..... **6.00**

ACALYPHA MACAFEANA.

Asparagus Plumosus Nanus

THE CLIMBING LACE FERN.-This graceful climber has, to a great extent, taken the place of the once popular Smilax in all fine decorations. It possesses the advantage of being much more graceful, its foliage being finer than that of the most delicate Fern, and will last for weeks after being cut, the whole plant being of a bright, cheerful green. It is an excellent house plant, succeeding under almost any condition. **10c.** each.

SPRENGERI.—A most desirable species, especially useful to grow as a pot plant for decorative purposes or for planting in suspended baskets; the fronds are frequently 4 feet long, of a rich shade of green, and most useful for cutting; makes an excellent house plant. **10c.** each.



ASPARAGUS SPRENGERI.

TUBEROUS BEGONIAS.

ALL SELECTED BULBS.

These are now among the most popular plants for beds of summer flowers. Nothing can exceed the brilliancy and richness of their flowers. From the time the first blossom appears until all growth is stopped by frost they are never out of bloom.

SINGLE SORTS.

Red. Pink. White. Yellow.

Each..... 10c. Per dozen.....$1.00

DOUBLE SORTS.

Orange. Red. Pink. White. Yellow.

Each..... 15c. Per dozen.....$1 50

FLOWERING VARIETIES.

Each..... 15c. Per dozen..... $1.50

ALBA PICTA.—Dark green leaves, lance-shaped, silvery spots. White flowers.

ARGENTEA GUTTATA.—Foliage of rich green, spotted with silver.

GLOIRE DU MONTET.—Flowers very double, opening a bright carmine, changing to a clear pink as it expands.

HAAGEANA.—One of the finest Begonias yet introduced. The flowers, which are of the largest size, are of a creamy white, with just sufficient pink to give them a bright, cheerful glow; the foliage is a bronzy-green above and red below.

NANCY.—Double, tender rose, stamens chrome yellow.

TRIUMPH DE LORRAINE.—Petals nicely imbricated; color on opening a bright scarlet, changing to cherry-carmine when fully opened.

SPECIMEN PLANT FLOWERING BEGONIA

BEGONIA REX.

(ORNAMENTAL-LEAVED VARIETIES.)

Many improvements have been made in recent years in this useful house plant. 15c. each. $1.50 dozen.

ERDODY.—A very striking variety of free, thrifty growth with a very pronounced double whorl on the leaf, one above the other. The texture is fine and velvety and the shading beautiful, showing a nice silver zone.

MANICATA AUREA. — Heavy waxy leaves blotched and marbled with a rich golden cream; with a clear pink etching.

LOUISE CLOSSON.—One of the richest and most beautiful of the Rex family. The coloring is simply magnificent.

Centre of leaf deep bronze, with a broad band of silvery rose, edged bronze and spotted rose.

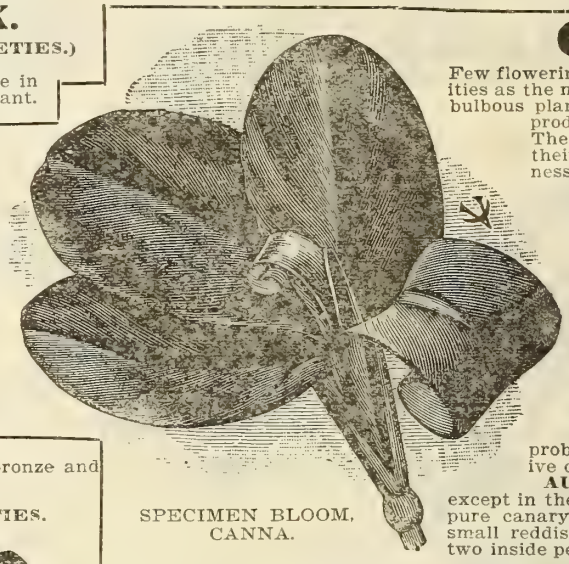
AND OTHER FANCY VARIETIES.

SPECIMEN PLANT, ORNAMENTAL-LEAVED BEGONIA.

CARNATIONS.

FURNISHED ON APPLICATION.

10c. each. $1.00 per dozen.



SPECIMEN BLOOM, CANNA.

CANNAS.

Few flowering plants combine so many fine qualities as the modern Canna—a race of sub-tropical bulbous plants, of most easy culture, rapid reproduction, and good keeping qualities. The floral world has been astonished by their luxuriance of foliage and gracefulness of bloom, which is of immense size, borne in large masses and trusses, combining in color the brightest and richest shades of yellow, red, orange and scarlet, bringing them to the front as the finest ornamental plant in commerce. Useful for garden, greenhouse or sitting-room.

ALLEMANIA.—Exceptionally large flowers, frequently measuring 6½ inches across, the upper petals salmon, with broad border and markings of golden yellow, while the lower petals are dark salmon marked with yellow in the centre; foliage dark green; 6 feet.

ALPHONSE BOUVIER.—This is probably the grandest and most effective crimson Canna grown. Height, 6 feet.

AUSTRIA.—Is a counterpart of Italia except in the color of its flowers, which are of a pure canary yellow, with but a few traces of small reddish-brown spots in the centre of the two inside petals; 6 feet.

BELLE OF BALTIMORE.—Bronze foliage, red-flowered; 3½ feet.

BURBANK.—Very large flowering, rich yellow, with very substantial, heavy, light green foliage. Height, about 4 feet.

DUKE OF MARLBOROUGH.—Beautiful crimson maroon; the largest Canna grown. A sturdy erect grower, with fine metallic green foliage; 4 feet.

FLORENCE VAUGHAN. — The finest yellow-spotted variety yet sent out. The foliage is massive and of rich green color; 4 feet.

LEONARD VAUGHAN.—Foliage bronze, large trusses of orange-scarlet flowers; 4½ feet.

MME. LEON LECLERC.—Ground color bright orange scarlet, with a heavy tip and narrow margin of yellow; 5 feet.

MADAME CROZY.—Flowers of dazzling crimson scarlet, bordered with golden yellow. A marvelous and rich combination of colors. The plant is of vigorous growth, yet very dwarf in habit, rarely exceeding 4 feet in height.

SECRETAIRE CHABANNE.—Salmon-colored; rich and pleasing. Height, about 4 feet.

EGANDALE.—Fine dark variety; flowers of a soft currant red; 3½ feet.

PAPA.—A fine red, with large flowers and truss; 3½ feet.

ITALIA.—Is of a bright orange-scarlet, with a very broad yellow golden border. The flowers, which are produced on massive stems, about 16 inches long, are set well above the foliage, which is large and heavy, similar to that of the Musa Ensente; 6 feet.

QUEEN CHARLOTTE.—This new German sort is one of the handsomest scarlet varieties ever introduced, having a distinct golden belt around each petal; 3½ feet.

FLAMINGO.—Crimson, growing about 3 feet high.

CHARLES HENDERSON. — Probably the most popular crimson Canna in cultivation, of uniform, compact habit, rarely exceeding 3½ feet in height.

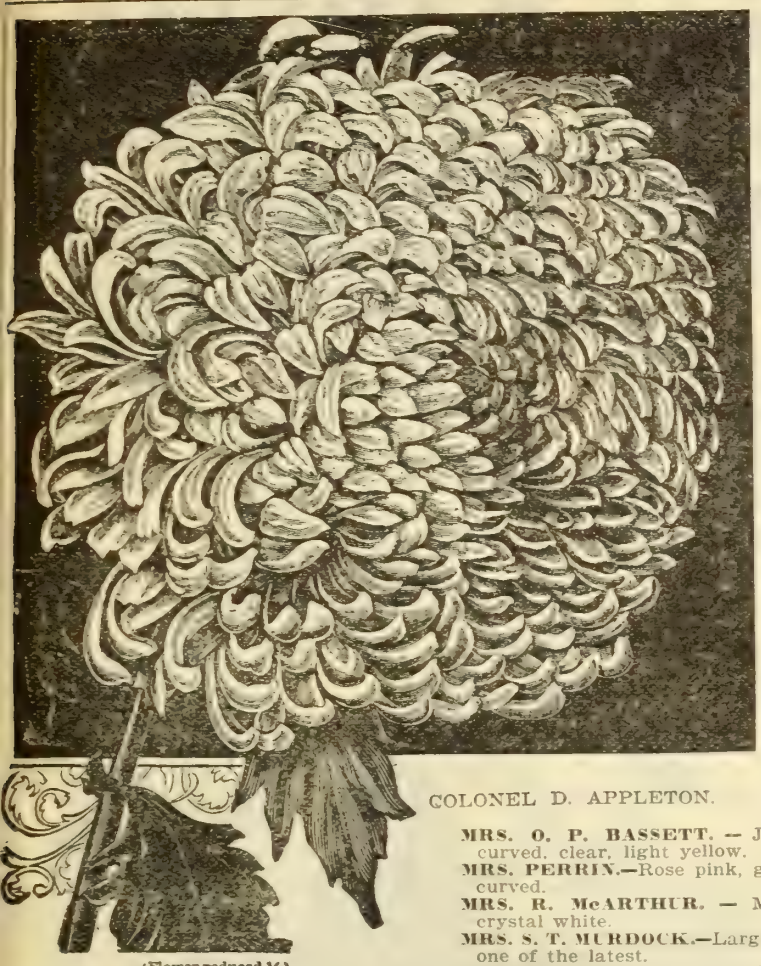
MLLE. BERAT.—The nearest approach to a pink in a first-class bedder. Height, 4 feet.

BEAUTE POITEVINE.—A very dark crimson variety, with dark metallic-green foliage, and deep, rich, crimson flowers; 3½ feet.

NICE POT-GROWN PLANTS, ready for immediate effect, 15c. each; $1.50 doz.; $10.00 per 100, by express, not prepaid.

DRY OR DORMANT ROOTS

Each..... 5c. Per dozen.....35c.



COLONEL D. APPLETON.

(Flower reduced ¼.)

CHRYSANTHEMUMS

LARGE SHOW VARIETIES.

PRICES, EXCEPT WHERE OTHERWISE NOTED,
Each.....15c. Per dozen.....$1.00 Per 100.....$5.00
One Each of the 33 Varieties for $1.75, by Express Not Prepaid.

AUTUMN GLORY.—Deep reddish-salmon when first opening, gradually changing to a soft shrimp pink.
COL. D. APPLETON.—Large pure yellow.
COL. WM. B. SMITH.—A grand, deep yellow, of finest form and size.
CULLINGFORDI.—A fine shade of crimson.
EUGENE DAILLEDOUZE.-Bright, clear yellow; extra.
EUREKA.—High-class porcelain white.
GEORGE W. CHILDS.—The best deep self-colored variety in existence.
GLORY OF THE PACIFIC.—A magnificent extra early pink.
GOLDEN WEDDING.—The grandest golden yellow ever introduced.
IVORY.—Snowy white; perfect form and early.
IVORY, PINK.—Shell pink.
J. H. WOODFORD.—Shell or mermaid pink, strong stem, fine foliage.
LIBERTY.—Of beautiful form; color a clear, rich yellow.
MAJOR BONNAFFON.—One of the best yellows.
MAUD DEAN.—An extra large-flowered variety; color pink, almost rose.
MINERVA.—Large, vivid, golden yellow.
MINNIE WANAMAKER.-Creamy white, of very large size, and so much in-curved as to resemble a white ball.
MODESTO.—One of the largest and prettiest yellow varieties.
MRS. F. BERGMANN.—One of the earliest and best whites.
MRS. H. WEEKS.—Japanese in-curved, snow white.
MRS. JEROME JONES.—Large, creamy white.
MRS. J. I. WHILDIN.—A handsome light yellow.
MRS. JOHN GLESSNER.—Large, light yellow, in-curved, late.
MRS. O. P. BASSETT. — Japanese in-curved, clear, light yellow.
MRS. PERRIN.—Rose pink, globular, in-curved.
MRS. R. McARTHUR. — Magnificent; crystal white.
MRS. S. T. MURDOCK.—Large deep pink, one of the latest.
NIVEUS.—A grand, snow-white variety.
ROSE OWEN.—A fine, early, light pink.
THE QUEEN.—Excels all in pure whiteness.
TIMOTHY EATON.—Large, pure white.
V. H. HALLOCK.—Rosy pearl of a waxy texture.
WM. H. LINCOLN.—A magnificent golden yellow variety.

HARDY POMPONE CHRYSANTHEMUMS.

PRICE—Each.....10c. Per dozen.....75c. Per 100.....$5.00
One of Each of the 59 Varieties for $3.00, by Express Not Prepaid.

THESE beautiful small-flowered varieties are certain to become popular for outdoor bedding purposes. They are absolutely hardy, and produce an abundant profusion of blooms, and the plants lend a coloration to the garden just at a time when other plants have been destroyed by frost and are looking their worst. Frost does not materially affect the flowering, and it will frequently happen that an armful of flowers can be cut after a sharp frost. The collection we offer embraces all the leading colors, and, with but a slight covering of leaves or coarse stable litter during the winter, will take care of themselves after once planted.

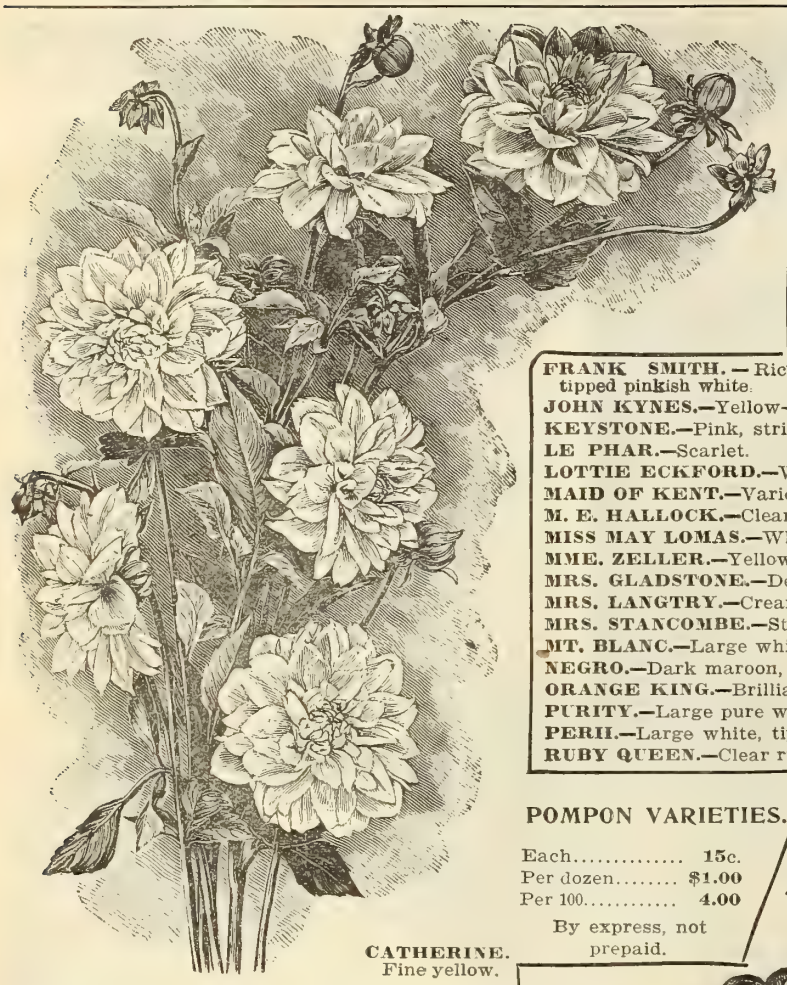
ANNA MARY.—Creamy white.
BEN HUR.—Very small pink.
BLUSHING BRIDE.—Early, light pink.
BOB.—Delicate pink.
BRIDESMAID.—Clear, soft pink.
BROWN BESSIE.—Terra cotta.
CHIVVER.—Small, white.
CLIMAX.—Deep rosy pink.
DINIZULU.—Deep pink.
EAGLE de O'ER.—Good yellow.
EDNA.—Pink, light centre.
ELEGANTA.—Deep pink, white tip.
FAIRY QUEEN.—White, pink tip.
FIRE BALL.—Yellow, tipped white.
FLAG OF TRUCE.—Large, full white.
FRED. PEELE.—Small, light pink.
GLOBE d'OR.—Light yellow.
GOLDEN FLEECE.-Large, lemon yellow.
GOLDEN PHEASANT.—Golden yellow.
GOLD FINCH.—Yellow, shading bronze.
GOLD NUGGET.—Deep orange.
GOLD STANDARD.—Fine yellow.
HAPPY THOUGHT.—Rosy pink.
IVANHOE.—Deep pink, tipped white.
JACK.—Small light pink.
JULIA LAGRAVERE.—Dark bronze.
KADAR.—Brown, yellow centre.
LABANAH.—Tall, white.
LADYSMITH.—Rosy lake.
LA FAVORITE.—Delicate blush.
L'AMI CONDERSCHLERDT.—Small, white.
LITTLE PET.—Rose.
MAID OF KENT.—White.
MR. KNAUF.—A beauty.
MR. SCHMIDT.—Small, yellow.
MRS. VINCENT.—Large, deep rosy pink.
NAOMI.—Delicate blush.
NELLIE BLY.—Light pink.
NELLIE RAINSFORD.—Light bronze.
PRESIDENT.—Dark pink.
PRINCE OF WALES.—Best white.
PRINCESS LOUISE.—Bronze.
PSYCHE.—Pale pink.
QUEEN OF BUL.—Tall, deep pink.
REGULUS.—Deep bronze.
RHODA.—Delicate pink.
ROSANANTE.—Late, pink.
SOUVE McLAINE.—Good white.
ST. ILLORIA.—Silver pink.
SHESHAR.—Vermilion yellow.
SUNLIGHT.—Light bronze.
THALIA.—Fine white.
THOMAS LONG.—Light pink, tipped white.
TIBER.—Early, yellow.
TISRI.—Deep pink.
VICTOR.—Very deep pink.
VUEVE CLIQUOTS.—Early, yellow.
YELLOW QUEEN.—Lemon yellow.
ZEFF.—White, tipped pink.

L'AMI CONDERSCHLERDT
(Pompone Chrysanthemum.)

COLEUS.

FIFTEEN CHOICE VARIETIES.

10c. each; 60c. per dozen; $4.00 per 100, by express, not prepaid.



CATHERINE.
Fine yellow.

DAHLIAS.

POT GROWN.

FANCY SHOW VARIETIES.

10c. each. $1.00 per dozen.

ALICE.—Deep lilac.
A. D. LIVONII.—Sea-shell pink.
APPLE BLOSSOM.—Nearly all colors of the apple blossom.
ARABELLA.—Sulphur-tipped pink.
ELECTRIC.—Pinkish lilac.
EUREKA.—Deep rose.
FERN LEAF BEAUTY.—White, striped with crimson margin.
FRANK SMITH.—Rich dark-purplish maroon, tipped pinkish white.
JOHN KYNES.—Yellow-tipped scarlet.
KEYSTONE.—Pink, striped with crimson; very large.
LE PHAR.—Scarlet.
LOTTIE ECKFORD.—White, spotted with pink and crimson.
MAID OF KENT.—Variegated crimson and white.
M. E. HALLOCK.—Clear yellow.
MISS MAY LOMAS.—White, tipped with lavender.
MME. ZELLER.—Yellow, edged with pink.
MRS. GLADSTONE.—Delicate shell pink.
MRS. LANGTRY.—Cream, peach and purple.
MRS. STANCOMBE.—Straw, suffused amber, striped red.
MT. BLANC.—Large white, tipped pink.
NEGRO.—Dark maroon, with fringed petals tipped with white.
ORANGE KING.—Brilliant orange.
PURITY.—Large pure white.
PERII.—Large white, tipped and edged with pink.
RUBY QUEEN.—Clear ruby red.

POMPON VARIETIES.

Each	15c.
Per dozen	$1.00
Per 100	4.00

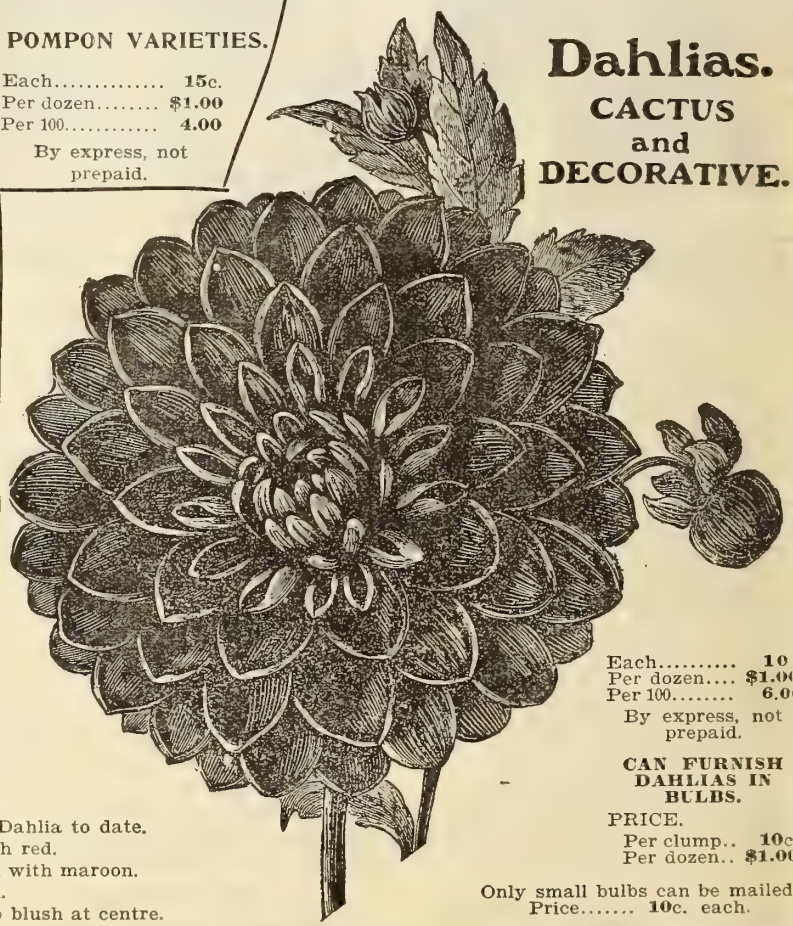
By express, not prepaid.

CRIMSON BEAUTY.-Deep crimson.
DAYBREAK.—Pink.
ELFIN.—Pale primrose, changing to cream white.
ELEGANTA.—Soft pink, tipped deep pink.
FAIRY QUEEN.—Light sulphur yellow, edged with deep pink.
LELIA.—Flesh mottled, deep crimson.
LITTLE BESSIE.—Quilled cream, white.
LITTLE HELEN.—Pure white.
LITTLE MASTER.—Deep maroon.
LITTLE PET.—Soft pink, shaded with crimson.
LITTLE PRINCE.—Red tipped, mottled deep crimson.
PRINCE CHARMING.—White, suffuse purple-pink.
PSYCHE.—Pale yellow, edged with pale pink.
SUNSHINE.—Scarlet.

CACTUS AND DECORATIVE.

AUSTIN CANNELL.—Light crimson rose, shading lighter towards the edges.
BENNETT.—Soft crimson.
CLIFFORD W. BRUTON.—The best yellow Cactus Dahlia; a clear rich yellow; very large.
EARL OF PEMBROKE.—Bright plum, deeper and more velvety towards the centre.
GRAND DUKE ALEXIS.—Large massive flowers; ivory white, with faint tinge of rose at the extremities of petals. Double quilled.
HENRY F. MICHELL.—Very large; petals long; color from soft yellow to deep orange red.
HENRY PATRICK.—Large; pure white; long stem.
JOHN H. KOACH.—The finest pure yellow Cactus Dahlia to date.
JOHN ELITCH.—Large, perfectly formed; deep, rich red.
KING OF CACTUS.—Deep, briliant crimson, shaded with maroon.
LYNDHURST.—Deep glowing scarlet; large and full.
NYMPHAEA.—A beautiful delicate pink, shading to blush at centre.
ORANGE KING.—Yellow orange.
WILLIAM AGNEW.—An intense glistening scarlet crimson of immense size.
WILHELM MILLER.—Brilliant purple; very free; flowers large and distinct.

Dahlias.
CACTUS and DECORATIVE.



SPECIMEN CACTUS DAHLIA.

Each	10c
Per dozen	$1.00
Per 100	6.00

By express, not prepaid.

CAN FURNISH DAHLIAS IN BULBS.

PRICE.

Per clump.. 10c.
Per dozen.. $1.00

Only small bulbs can be mailed. Price..... 10c. each.

ANY OF THE ABOVE CACTUS OR DECORATIVE DAHLIAS 10c. each; $1 doz.; $6 per 100.

GREVILEA ROBUSTA.

(SILK OAK.)

A beautiful and graceful foliage plant; highly valued as a decorative plant for the table, and when large for tropical lawn effects; tender perennial; 3 to 5 feet.

Each..... 15c.
Two for..... 25c.

HELIANTHUS MULTIFLORUS PLENUS
(Dahlia Sunflower).

Loaded with yellow flowers; excellent cut flower. Hardy perennial.

Each..... 15c.
Two for..... 25c.

"MIKADO" FERN BALL.

THE BEST HOUSE PLANT NOVELTY IN TEN YEARS.

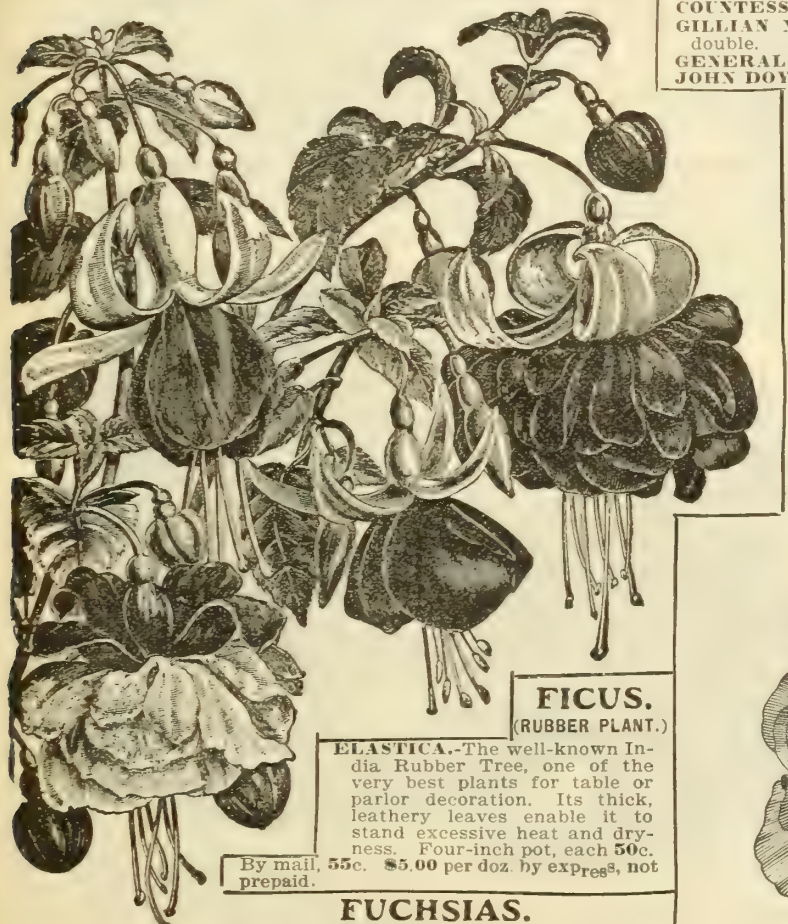
THESE balls consist of Fern roots about the size of a pencil, woven outside and around a ball of moss. These roots produce beautiful sprays of Ferns from eyes or buds at nearly every inch of their length. Thus the whole surface of the ball soon becomes covered with Fern sprays. They may be suspended in any part of the room or grown on a stand or table. To use in Fern dish, cut ball in halves, placing flat side down, thus getting two dishes of beautiful Ferns.

PRICES.—Dormant Balls, first size, 30c. each, three for 75c.; large size, 35c. each, three for $1. By mail, 10c. extra.

GERANIUMS.

Each..... 15c. Per dozen.....$1.00

AMERICA (SINGLE).—A great improvement on Mars. Very rich pink, with white border around each flower.
ALPHONSE RICCARD (DOUBLE).—Bright orange red.
BEAUTE POITEVINE.—Rosy salmon, tinted from deep orange to salmon; double.
CENTAURE.—Splendid shade of pink; double.
DRYDEN (SINGLE).—Centre pure white, surrounded by a band of the most dazzling rosy scarlet, producing the "Aureole" effect.
DOUBLE GEN. GRANT.—Clear vermilion red; double.
COUNTESS De HARCOURT.—Very fine; double; pure white.
GILLIAN M. GILL.—Free bloomer; pleasing shade of crimson; double.
GENERAL De BOISDEFFERE.—Deep cherry salmon; double.
JOHN DOYLE.—Rich, brilliant, vermilion scarlet; double.
LA PILOTE.—Bright glowing scarlet; double.
LA FAVORITE.—Finest of all double whites.
LE CID.—Grand velvety red; double.
MAD. JAULIN (See Cut).—Delicate pink; borders pure white; double.
MISS FRANCIS PERKINS.—Grand bright pink; double.
MARQUISSE DE MONTMORT.—Deep, brilliant carmine purple; double.
MAD. BARNEY.—Splendid pure deep pink; double.
MISS KENDELL.—Dark maroon, marked with red; double.
S. A. NUTT.—Large, dark rich crimson; single.
GRANVILLE.—Clear, rosy pink; stands sun well; single.
JACQUERIE.—Large, velvety, dark crimson-scarlet; single.
L'AUBE.—Pure snow-white; single.
MRS. E. G. HILL.—Soft light salmon, bordered with rosy salmon; single.
MAD. BRUANT.—White-veined, with carmine lake; single.
SWEET-SCENTED GERANIUMS.—Balm, Rose, etc.; six varieties. 15c. each; 5 for 50c.; 30 for $2.
IVY GERANIUMS from 2½-inch pots, 15c. $1.50 doz.



FICUS.

(RUBBER PLANT.)

ELASTICA.—The well-known India Rubber Tree, one of the very best plants for table or parlor decoration. Its thick, leathery leaves enable it to stand excessive heat and dryness. Four-inch pot, each 50c. By mail, 55c. $5.00 per doz. by express, not prepaid.

FUCHSIAS.

Each.....10c. Per dozen.....$1.00

BLACK PRINCE.—Bright waxy carmine; pink corolla.
GLOIRE DE MARCHES.—Grand double white.
ROSAINS PATRI.—Large white corolla.
SPECIOSA.—Very free.

HELIOTROPE.

Old-time favorites, popular on account of their fragrant blossoms. They thrive equally well on the lawn or in the house.

Each..... 10c. Per dozen.....$1.00

MAD. JAULIN.

MARANTA.

MASANGEANA.—Dwarf-growing plant, with light green foliage mottled maroon. Used extensively in filling fern dishes; foliage is always bright and attractive. Makes a very pretty effect when used with other plants in plant decorations. **25c.** each.

MOON FLOWER.

MOON FLOWER.—Blue and white. **10c.** each; 6 for **50c.**; **$1.00** per dozen.

PANSIES.

GOOD VARIETIES.

Ready February and March.

G. & T. CO.'S CHOICE MIXED.—15c. each; 6 for **50c.**; **$1.00** dozen.

PÆONIES.

One of the most popular hardy plants grown for lawn and garden decoration, or for mingling with shrubs for herbaceous plants in borders and wild gardens.

DOUBLE WHITE.—**25c.** each; **$2.50** per dozen.

DOUBLE ROSE.—**25c.** each; **$2.50** per dozen.

DOUBLE CRIMSON.—**25c.** each; **$2.50** per dozen.

Postage extra **5c.** each, if wanted by mail.

VERBENAS.

Ten named varieties; **10c.** each; 6 for **50c.**; **75c.** per 100.

PALMS.

First Size....**$1.00** Second Size.....**50c.**

ARECA LUTESCENS.—This majestic Palm is without a peer for strength and elegance combined. (See cut.)

KENTIA BELMOREANA.—This is sometimes called the "Curly Palm," and is recognized as among the best for all purposes. Our plants are of stout, stocky growth, and are sure to give satisfaction.

LATANIA BORBONICA—Chinese Fan Palm.—Of easy culture and rapid growth. Large, broad, fan-shaped, glossy, dark green leaves.

COCOS WEDDELIANA.—Admirable for fern dishes, as they are of slow growth and maintain their beauty for a long time.

PANDANUS UTILIS.—As a vase plant or single specimen in greenhouse or conservatory it cannot be surpassed.

BOSTON FERN.—It is a very fine plant for hanging pots or baskets on the piazza in summer and conservatory or window in winter.

STROBILANTHES.—Dyerianus.

An excellent bedding plant as well as a beautiful foliage plant for pot culture. It forms a compact bush 18 inches high, with leaves 6 to 9 inches long; of a beautiful metallic purple, shading into light rose, with a light green margin, a combination unapproached by any other plant. The flowers are violet blue, borne in immense racemes. **15c.** each; **$1.50** dozen.

THE "BABY" PRIMROSE.

(Primula Forbesii.)

A very attractive variety, blooming most profusely during the winter and spring; in fact, it blooms continuously for nine months. The sprays of rosy lilac flowers are very graceful and exceedingly useful for cut flowers. Is easily grown in the house. **10c. each; $1.00** per dozen.

SILVER SPOT.

SCARLET SAGE,

OR

SALVIA SILVER SPOT.

The most distinct feature of this novelty is its strikingly handsome spotted foliage. The leaves are covered with sulphur-yellow spots of various sizes; flowers are bright scarlet and large size. **10c.** each; **$1.00** per dozen; **$6.00** per 100.

SCARLET SAGE, OR SALVIA CLARA BEDMAN OR BONFIRE.—Dwarf. The fire-like appearance of the flowers standing erect among the green foliage gives the plant a most gorgeous appearance. **10c.** each; **$1.00** per dozen; **$6.00** per 100.

SCARLET SAGE, OR SALVIA SPLENDENS.—Tall, erect, green foliage. The well-known Salvia. **10c.** each; **$1.00** dozen; **$6.00** per 100.

See next page for the Tritoma, or Red-hot Polka.

TRITOMAS.—Red Hot Pokers.

FLAME FLOWERS OR TORCH LILIES.

PFITZERII (The Everblooming Flame Flower).—The freest flowering variety in cultivation, with spikes from 3 to 4½ feet high and heads of bloom over 12 inches long of a rich orange-scarlet, shading to salmony-rose at edges, producing a grand effect whether planted singly in the border or in masses or beds of a dozen, a hundred or in thousands. (See cut opposite.) **15**c. each; **$1.50** per dozen.

UVARIA GRANDIFLORA.—The old-fashioned late-flowering sort; spikes, 3 to 4 feet high; flowers rich crimson, shading to yellow. **10**c. each; **$1.00** per dozen.

HARDY WATER LILIES.

THE ease with which Water Lilies and Aquatics are cultivated, the certainty of handsome results the same season they are planted, the magnificent flowers of great variety of form and color, their delicate perfume and the great fascination in growing them, is making the water garden widely popular. The small-growing varieties may be grown in half-barrels or tubs. We do not, unless specially ordered, send out Water Lily plants until warm weather, about the middle of May. The tubs should have a hole in the side and kept plugged for the purpose of drawing off the water occasionally. The tubs containing the Lilies may be set in a cellar or any place where they will not freeze solid, and be ready to set out in the spring.

NYMPHÆA ODORATA.—The well-known, fragrant pond lily. Its lovely pure white flowers, so common in some localities, are worthy of a place among the choicest varieties where cultivated. **15**c. each; 4 for **50**c.; **$1.25** per dozen.

NYMPHÆA ODORATA GIGANTEA.—This is a superb variety, and should be in every collection. Similar in all respects to Nymphae Odorata, but the flower is very large and full. **15**c. each; 4 for **50**c.; **$1.25** per dozen.

NYMPHÆA ODORATA MINOR.—A pretty little variety of our native pond lily, equally as hardy and fragrant, but the flowers and leaves are much smaller. **15**c. each; 4 for **50**c.; **$1.25** doz.

PINK CAPE COD WATER LILY.—Possesses all desirable qualities of Nymphae Odorata. Flowers, large size; cup-shaped; color, lovely deep pink; delicious fragrance; free bloomer; most desirable variety. **40**c. each; **$3.50** per dozen.

IRIS.

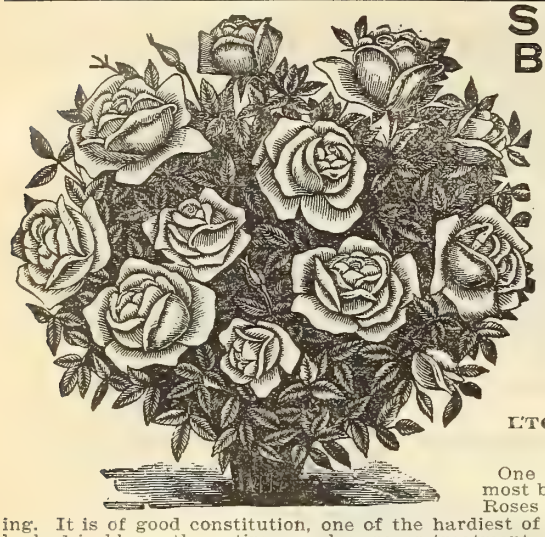
JAPANESE IRIS (Kaempferi).—These magnificent Japanese Iris are among the most beautiful of our summer flowering plants, and are destined to become great favorites. They commence flowering early in July, and continue in bloom for five or six weeks, if plentifully supplied with water while growing and flowering. Many of these flowers measure from 10 to 12 inches in diameter, and almost rival the Orchids in their rich colorings and markings. Each, **15**c.; 4 for **50**c. If by mail, add **5**c. dozen.

ENGLISH IRIS (Anglica).—Large, handsome flowers with rich purple, blue and lilac colors predominating; grows 18 to 20 inches high; perfectly hardy. Mixed varieties. **10**c. each; **40**c. per dozen. If by mail, add **5**c. per dozen for postage.

GERMAN IRIS (Iris Germanica).—This variety is the true "Fleur-de-Lis," the national flower of France. They are perfectly hardy, thrive anywhere, grow and bloom luxuriantly, particularly if plentifully supplied with water or if planted in moist situations, as on the banks of ponds, etc. Plants well established produce from 50 to 100 spikes of bloom, deliciously fragrant and fine for cutting. In beauty the flowers rival the finest Orchids, colors ranging through richest yellows, intense purples, delicate blues, soft mauves, beautiful claret reds, white, primroses, and bronzes of every imaginable shade. Mixed varieties, **10**c. each; **40**c. dozen. Ready in November.

SPANISH IRIS.—Excellent for pot culture, and are now being grown for cut flowers. Plant in the open ground in autumn and protect slightly during the winter months. Early in April cover the beds with glass and flowers will be ready for cutting in May. Mixed varieties, each, **10**c.; **40**c. per dozen. If by mail, add **5**c. per dozen for postage.

SELECT EVER-BLOOMING ROSES



L'TOILE DE LYON (Tea).

One of the best and most beautiful yellow Tea Roses for general planting. It is of good constitution, one of the hardiest of the Teas, and may be had in bloom the entire year by proper treatment. The flowers are of good size, deep and full and very sweet-scented; color, rich golden yellow. (See cut.)

PRICES:

Two Years Old.	
Each	50c.
One dozen choice mixed (by express, not prepaid)	$5.00
Six Months Old.	
Each	15c.
One dozen choice mixed (by express, not prepaid)	$1.25

MADAME CAROLINE TESTOUT.

MAD. CAROLINE TESTOUT (Tea).—Flowering freely all summer. Beautiful satiny pink flowers. One of the best. (See cut.)

PAUL NEYRON (Hybrid).—Deep, shining pink. Flowers often five inches in diameter. It is a good, strong grower; almost thornless.

SOUVENIR DE LA MALMAISON (Tea) (Bourbon).—Creamy flesh, bright and clear. The flowers large and double; very fragrant.

SOUVENIR DU PRES. CARNOT (Tea).—The growth is vigorous, the flower is very large, both in the bud and expanded; opens beautifully. Rosy flesh, very soft in the centre, and shaded with a lighter flesh at the end of the petals.

PERLE DES JARDINS (Tea).—Beautiful rich yellow, of large size and perfect form.

GENERAL JACQUEMINOT (Hybrid).—Too well known to require lengthy description. It still holds first place among the dark red Roses and is one of the most satisfactory to grow. A rich crimson scarlet, simply a mass of bloom when at its best.

METEOR (Hybrid Tea).—A velvety red ever-bloomer of the deepest glowing crimson. Flowers very double and petals slightly recurving. A beautiful open Rose, a free bloomer and promising well as a pot Rose.

AMERICAN BEAUTY (Hybrid).—This variety has been rightly described as an ever-blooming hybrid perpetual. The flowers are very large and double; color, a deep rich rose. The fragrance is delightful. Each shoot produces a bud.

COQUETTE DES BLANCHES (Hybrid).—Pure white; very free blooming. One of the best white Roses.

DUCHESS DE BRABANT (Hybrid).—Beautiful buds, deep rosy-pink, edged with silver; blooms quickly and constantly; one of the best.

LA FRANCE (Tea).—Undoubtedly the most perfect type of a cut-flower Rose. No variety surpasses it in delicate coloring—silvery rose, with a satiny sheen over all its petals. Flower large, with the well-known fragrance.

PAPA GONTIER (Tea).—Dark crimson red, with long, pointed buds; beautiful for cutting.

HARDY MEMORIAL ROSE (Rosa Wichuriana)—For use in Cemeteries. It is difficult to conceive anything more appropriate, beautiful and enduring for covering graves and plots in cemeteries than the Hardy Memorial Rose. It creeps along the ground almost as closely as the Ivy, growing ten feet in one season, and forming a dense mat of very dark green, lustrous foliage.

PRICES—ANY OF THE ABOVE.—Two Years Old—50c. each. One dozen choice mixed, **$5.00.** By express, not prepaid. **Six Months Old—15c.** each. One dozen choice mixed, **$1.25.** By express, not prepaid.

GOLDEN GATE (Tea).

This is a beautiful free blooming and healthy Tea Rose that we can recommend to everyone desiring large flowers, long stems and continuous bloom. The buds are long and pointed, opening out into a well-shaped flower of creamy white, delicately tinged with golden yellow and rose. (See cut.)

SELECT EVERBLOOMING ROSES.

PRICES:

One dozen choice mixed, two years old.....**$5.00, 50c.** each.
By express not prepaid.

One dozen choice mixed, six months old.....**$1.25, 15c.** each.
By express not prepaid.

BON SILENE (Tea).—Brilliant carmine.

BRIDESMAID (Tea).—The flowers are very large and of fine, regular, full form, delightfully tea-scented; color, clear rose-pink. A free and constant bloomer; makes elegant buds for cutting.

CLOTHILDE SOUPERT (Tea).—This is the most famous pot and bedding Rose (Polyantha Tea). Its charming coloring, shading from pearly white to purest rose, double blossoms, delightful fragrance, wonderful vigor and freedom of bloom combine to make it a most beautiful Rose.

COQUETTE DES ALPS (Hybrid Perpetual).—A continuous flowering white; slightly shaded blush in centre.

DUCHESS OF ALBANY (Tea).—Rich, deep pink. An improvement on the well-known Lafrance.

HERMOSA (Tea).—Clear bright pink.

KAISERIN AUGUSTA VICTORIA (Hybrid Tea).—One of the most desirable white Roses for summer bedding; large flowers, produced in great profusion; a strong, healthy grower with large foliage.

MAMAN COCHET (Tea)—A BEAUTIFUL NEW TEA ROSE. One of the very best and most valuable Roses of recent introduction, especially for outdoor blooming. The finest pink garden Rose yet introduced. The flowers are of great size and very double; color, bright rose.

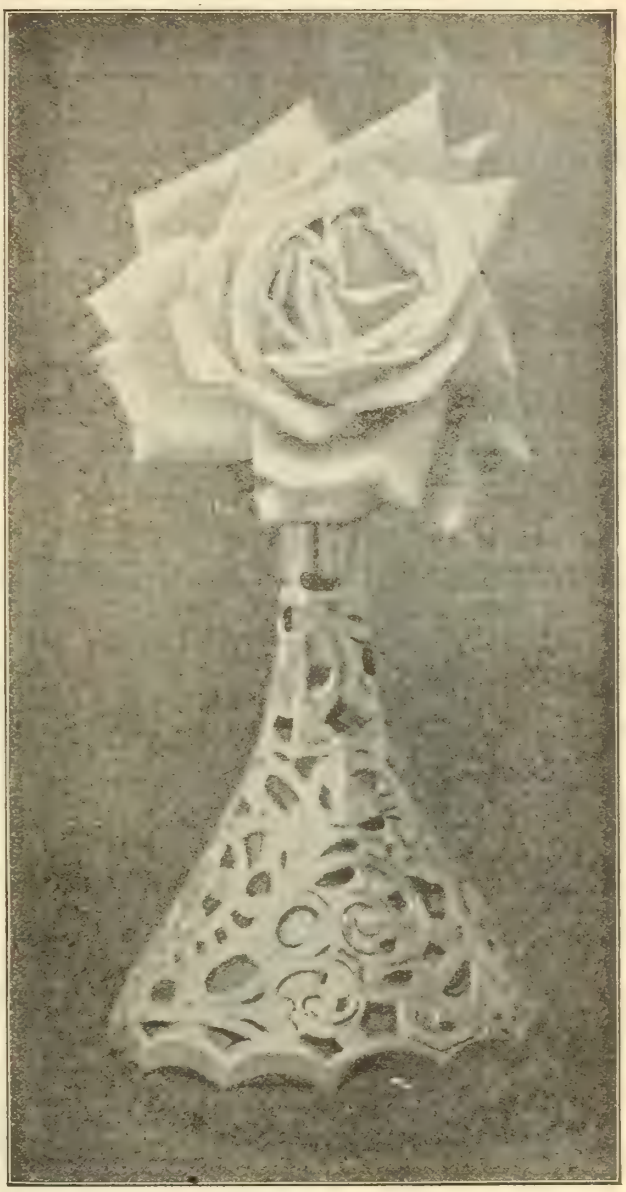
WHITE MAMAN COCHET (Tea)—(See cut.)—This is a superb variety; snow-white. The flowers are large and very double, making it of more than ordinary value in open ground.

MARIE VAN HOUTTE (Tea).—Yellow, shaded rose.

PRINCE CAMILLE DE ROHAN (Hybrid Perpetual).—Deep velvety crimson-maroon, shaded scarlet.

SAFRANO (Tea).—Buff, tinted apricot.

MAMAN COCHET.



WHITE MICROPHILLA.

HARDY CLIMBING ROSES.

WHITE MICROPHILLA, OR MAGNOLIA ROSE.—Rich, creamy white; the most deliciously fragrant of all Roses; has strong resemblance to the odor of a magnolia; hence its name. Strong, rapid grower; leaves small; very hardy; constant bloomer. This is not a new Rose, but the old-time climber that was so extensively grown in ante-bellum days, and now coming to the front as one of the great climbers.

REINE MARIE HENRIETTE.—Cherry-red; a beautiful, lively shade. Buds long and pointed.

CRIMSON RAMBLER.—Magnificent pyramidal clusters of rich crimson roses. Every cluster a perfect bouquet of Roses in itself. Grows ten to twenty feet in a year.

CLIMBING CLOTHILDE SOUPERT.—This grand new Rose is of the climbing form of the well-known and popular rose Clothilde Soupert. It is a vigorous grower, forming canes fifteen feet in one season, and covered with large clusters of flowers all summer. Flowers are large, double and a beautiful shell pink, forming the buds in clusters. Perfectly hardy and will stand any kind of weather. We cheerfully recommend it as the best of all the hardy ever-blooming Roses.

CLIMBING METEOR.—Blooms almost constantly. Flowers large and of that rich, dark, velvety crimson color seen only in the Jacqueminot. Strong, well-rooted plants.

NURSERY DEPARTMENT.

FRUITS.

SUMMER APPLES.

YELLOW TRANSPARENT.—Ripens among the earliest. July.
50c. each. $4.80 per dozen. $18.00 per 100.
STAR.—One of the best. July.
50c. each. $4.80 per dozen. $18.00 per 100.

AUTUMN APPLES.

GRAVENSTEIN.—August.
50c. each. $4.80 per dozen. $18.00 per 100.
OLDENBURG (Duchess of Oldenburg.)—August.
50c. each. $4.80 per dozen. $18.00 per 100.

WINTER APPLES.

LANKFORD'S SEEDLING.—A popular sort for late winter use.
50c. each. $4.80 per dozen. $18.00 per 100.
YORK IMPERIAL, or JOHNSON'S FINE WINTER.
50c. each. $4.80 per dozen. $18.00 per 100.
STAYMAN'S WINESAP.—A great Apple.
50c. each. $4.80 per dozen. $18.00 per 100.

ADDITIONAL VARIETIES.

("S" means Summer. "A" Autumn. "W" Winter.)
Red Astrachan, S. Carolina Red June, S. Tetofsky, S. Fall Pippin, A. Smokehouse, A. Ben Davis, W. Bentley's Sweet, W. Berry Red, W. Fallawater, A. Winesap, W. Nansemond Beauty, W. Rome Beauty, W.
25c. each. $2.50 per dozen. $15.00 per 100.
CRAB APPLES.—50c. each. $5.00 per dozen.

PEARS.

KOONCE.—Medium to large, very handsome; surface yellow, one side covered with a bright carmine, containing brown dots; quality very good, spicy, juicy and sweet. The Koonce is a vigorous grower, free from blight, productive, and an annual bearer.
50c. each. Three for $1.25.
VERMONT BEAUTY.—In color it is a rich yellow, with a beautiful bright carmine cheek. The fruit is of medium size, and the flesh is of the finest quality, being rich, juicy and aromatic.
50c. each. Three for $1.25.
GARBER.—September and October. Said to be blight proof.
40c. each. $4.00 per dozen. $25.00 per 100.
KEIFFER.—The old, well-known, reliable and paying variety.
40c. each. $4.00 per dozen. $30.00 per 100.
FLEMISH BEAUTY, BARTLETT, SECKEL.
30c. each. $3.00 per dozen. $25.00 per 100.

DWARF PEARS.

PRICES ON DWARF PEARS, 2 and 3 years, first-class:
25c. each. $2.50 per dozen. $15.00 per 100.
The following varieties succeed well as dwarfs.

Angouleme, Anjou, Lawrence, Seckel, Manning's Elizabeth.

PEACHES.

CARMAN.—Hardy, rot-proof. Ripens with Early Rivers; almost as large as Elberta. Pale yellow skin; flesh white. Melting, juicy. Ripens ahead of Mountain Rose.
50c. each. $4.80 per dozen.
ELBERTA.—Needs no description.
25c. each. $3.00 per dozen.
ITALIAN DWARF.—Very singular tree. Begins bearing when 12 to 15 inches high and seldom exceeds 3 or 4 feet. Fine for small yards. White; free-stone.
25c. each. $3.00 per dozen.
GOLDEN DWARF.—Seldom grows over 4 to 5 feet. Very hardy; cling. Excellent eater. Fine for city yards.
25c. each. $3.00 per dozen.
Alexander, Louise, Yellow St. John, Mountain Rose, Early Silver, Crawford Early, Wheatland, Crawford Late, Chairs Choice, Family Favorite, Chinese Cling, Old Mixon, Reeve's Favorite, Christiana, Smock Free, Globe, Ringgold Cling.
18c. each. $1.75 per dozen. $12.00 per 100.

JAPANESE OR ORNAMENTAL PLUMS

HALE.—Most vigorous tree of all the Japans. Fruit large; bright orange, mottled with cherry red. Superb in quality. Ripens middle of September.
Price, $1.00. Three for $2.50.
WILLARD.—Earliest of all Japan Plums, and hence very valuable for market.
50c. each. Three for $1.25.
WICKSON.—Pit small; flesh tender, sweet and delicious. Season just following the Burbank Plum.
50c. each. Three for $1.25.
Will sell one of each of above or the three in one order for $1.50.

BOTAN, OR ABUNDANCE.—First of August.
BURBANK.—September 1st.
The two above-named varieties, 60c. each. Three for $1.50. Six for $2.75. $4.50 per dozen.
ADDITIONAL FRENCH AND AMERICAN VARIETIES, INCLUDING SHROPSHIRE DAMSON.
35c. each. $3.50 per dozen.

CHERRIES

HEART.—Black Tartarian, Gov. Wood, Napoleon Bigareau, Florence, Mercer.
DUKE AND MORELLO.—Dye House, Belle Magnifique, Early Richmond, Montmorency.
Price, 50c. each. $5.00 per dozen.

APRICOTS.

HARRIS.—Very hardy; blooms late; sure bearer; fine golden yellow. **50c. each. $4.80 per dozen.**
RUSSIAN VARIETIES AND NECTARINES.
25c. each. $2.50 per dozen.

NUT-BEARING TREES.

Spanish Chestnut, English Walnut, Paper Shell Pecan, Filberts, Shell Barks, Hard and Soft Shell Almonds.
Price, 40 and 50c. each, according to variety.
JAPAN CHESTNUT.—$1.00 each. $10.00 per dozen.

GRAPES.

The following list contains the best-known sorts of hardy American varieties :
OHIO, Black.—One of the very best Two years old.
25c. each. $2.50 per dozen.
Brighton, Red. Concord, Black. Delaware, Red. Martha, White. Worden, Black.—Two years old.
25c. each. Twelve for $2.50.
Moore's Early, Black. Niagara, White. Pocklington, White. Vergennes, Red.—30c. each. $3.00 per dozen.
Campbell's Early.—50c. each. $5.00 per dozen.

SELECT QUINCES.

CHAMPION (3 to 4 feet).—35c. each. $3.00 per dozen.
CHAMPION (2 to 3 feet).—30c. each. $2.50 per dozen.
MEECH PROLIFIC (3 to 4 feet).—35c. each. $3.00 doz.
MEECH PROLIFIC (2 to 3 feet).—30c. each. $2.50 doz.

ORNAMENTALS.

DECIDUOUS TREES.

Can furnish any of the Deciduous Trees at 50c. to 75c. each, and larger quantities in proportion.
SPRUCE (2 to 2½ feet).—50c. each. $5.00 per doz.
FIRS (2 to 2½ feet.)—75c. each. $7.50 per dozen.
Other Varieties in Proportion.
MAGNOLIA, GRAND (2 to 3 feet).—$1.25 each.

SHRUBBERY.

JAPAN MAPLES.—Mostly dwarf habit; several kinds weeping and cut-leaved, with brightly-colored foliage, red, purple, etc. These are indeed remarkable for beauty, and wherever planted give perfect satisfaction. **$1.50 each.**
DEUTZIA GRACILIS.—75c. each.
DEUTZIA CRENATA.—75c. each.
LILAC (White and Blue).—75c. each.
SPIREA, RIEVESII.—75c. each.
SPIREA, BUMALDO.—75c. each.
SPIREA, CALOSA ALBA.—75c. each.
HYDRANGEA, PANICULATA GRAND.—75c. each.
CRAPE MYRTLE.—$1.00 each.

VINES.

AKEBIA QUINATA.—50c. each.
AMPELOPSIS VEITCHII.—50c. each.
ENGLISH IVY.—50c. each.
WISTARIA PURPURIA.—50c. each.
WISTARIA ALBA.—50c. each.
CLEMATIS (Large Flowering).—50c. each.
CLEMATIS (Small Flowering).—50c. each.

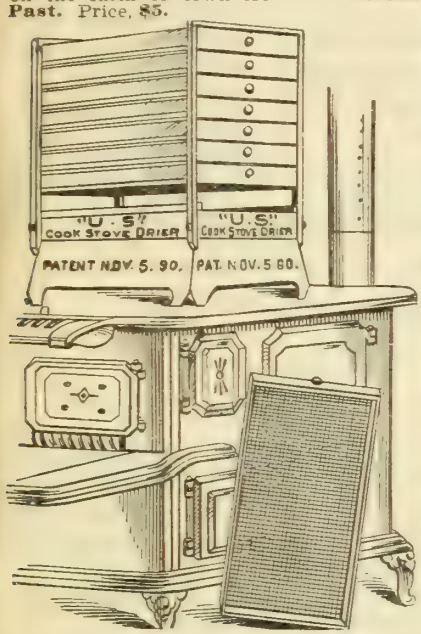
HEDGE PLANTS

CALIFORNIA PRIVET :
One Year—$4.00 per 100. $35.00 per 1000.
Two Years—$5.00 per 100. $40.00 per 1000.
OSAGE ORANGE :
One Year—75c. per 100. $7.50 per 1000.
Two Years, $1.25 per 100. $10.00 per 1000.
AMERICAN ARBORVITAE :
12 to 18 Inches—25c. each. $12.50 per 100.
2 to 3 Feet.—75c. each. $22.50 per 100.

FOR VEGETABLE AND FLOWERING PLANTS, SEE PLANT PAGES.

Cook Stove Fruit Drier.

IT is a little gold mine. No labor you can perform for cash returns pays as well as that of converting wasted fruits into evaporated stock. These products are among the highest priced luxuries in food products. Evaporated peaches, cherries and raspberries, 20 to 25 cents per pound; apples, pears, blackberries, etc., 10 to 15 cents; all salable to or may be exchanged with your grocer for anything he sells. **Recall the Waste of Fresh Fruits** on the farm or town lot **For Seasons Past.** Price, **$5.**



Strawberry Plants.

Varieties Marked "P" Should Have Another Perfect Flowering Sort Near Them.

WE offer a nice stock of Strawberry Plants of all the leading varieties, and at low prices, considering the quality of the stock. We can supply them at short notice, freshly dug and shipped direct from the nursery.

JESSIE.—Mid-season; good size and productive.
NICK OHMER.-Mid-season. Fruit large, glossy red, of excellent flavor.
BEDERWOOD.—Early and of medium size.
GLEN MARY (New).—A very large variety; larger than Sharpless or any other berry.
CLYDE.—Fruit large, firm and of light scarlet color.
LADY FINGER.—A very long berry of beautiful appearance. In season from medium to very late.
BRANDYWINE.—Very late; productive; strong grower.
TENNESSEE PROLIFIC.-Large, sweet, firm.
KENTUCKY.—Medium to late.
GANDY.—Late. Fine for canning.
MICHEL'S EARLY.—Very early.
BUBACH (P.)—Medium to late.
TUBBS.—Very early.
SHARPLESS.—Old reliable.
WILSON.—Old standard sort. Medium, early.
CUMBERLAND. — Medium, very large, juicy, of good flavor. Productive.
CRIMSON CLUSTER.—Late. One of the finest yet introduced.
HOFFMAN.-Medium size, firm and good quality and productive.
JOHNSON'S EARLY.—One of the finest early berries grown. Do not let it get too thick.
ZEITZER'S EARLY. — For an extra early berry this is best of all. Good shipper. Very productive for so early a berry. Ahead of Michel's in size and productiveness.

RASPBERRIES.

KANSAS (Black Cap).

THE fruit is handsome, firm and of fine quality. Its canes are of strong growth, entirely hardy and prolific, with tough, healthy, clean foliage. Its season is about second early—later than Souhegan, but earlier than Gregg. **75c.** per dozen; **$3.50** per 100.

MILLER RED.—Fruit size of Cuthbert; bright red; does not fade; core very small; ripens very early; heavy bearer; best shipper. **75c.** per dozen; **$3.50** per 100.

MUNGER.—Resembles Gregg, but much finer. One of the best of the black caps. Perfectly hardy. **75c.** per dozen; **$3.50** per 100.

GOLDEN QUEEN, CUTHBERT, OHIO AND SOUHEGAN.—**50c.** per dozen; **$3.00** per 100.

BLACKBERRIES.

ELDORADO.—Berries very large; jet black; sweet, melting; no hard core; splendid keeper and shipper. **75c.** per dozen; **$3.50** per 100.

WILSON, JR.—Very early.

ERIE.—Early.

EARLY HARVEST.

LUCRETIA (Dewberry).—As early as Early Harvest and as large as Wilson. Plant is entirely hardy, healthy, strong grower and very productive.

Any of the above, 50c. per dozen. $3.50 per 100. By express.

PRICE—Any of the above varieties, strong, healthy layers, 25c. per doz.; 75c. per 100; $4 per 1,000.

Pot Grown Plants will be ready for delivery after August 1st. Prices for pot-grown plants are from $3 to $4 per hundred, according to variety.

CURRANTS.

CHERRY.

Per half-dozen.....$0.60
Per dozen..... 1.00
Per 100 (by express)..... 6.00

FAY'S PROLIFIC.

Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red and good quality.

Per half-dozen.....$0.75
Per dozen (by express)..... 1.25

WHITE GRAPE.

Per half-dozen.....$0.60
Per dozen..... 1.00
Per 100 (by express)..... 5.00

Japan Wineberries.

This fruit is but little known, but should be in every garden. It is wonderfully productive.
Per dozen (by express).....$2.00

ORANGE (Hardy.)

GOOSEBERRIES.

DOWNING.

Two-Year-Old.

Per half-dozen.....$0.75
Per dozen..... 1.50
Per 100 (by express)..... 5.00

HOUGHTON'S SEEDLING.

Per half-dozen.....$0.50
Per dozen..... 1.00
Per 100 (by express)..... 5.00

JAPAN HARDY ORANGE.
(Citrus Trifoliata.)

New Hardy Orange. It blooms and fruits profusely in the parks of Philadelphia and New York. To have a fruiting Orange tree in your garden is certainly something to be proud of; its large, white, sweet-scented flowers are produced in the greatest abundance before the fruit appears. Well adapted for hedges, making a close, compact growth that nothing can penetrate. Fruit small, bright orange red in color, has a peculiar flavor, fine for preserving.

Three Years Old, By Freight or Express.

Each..... $0.50
Per dozen..... 3.50
Per 100..... 15.00

For Vegetable and Flowering Plants, See Plant Pages.

Horticultural Tools and Supplies.

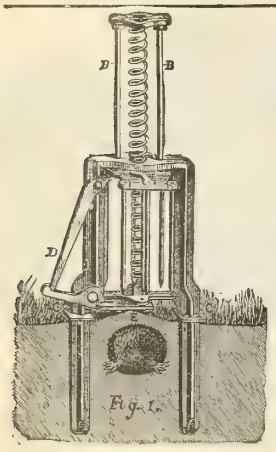


Fig. 1.

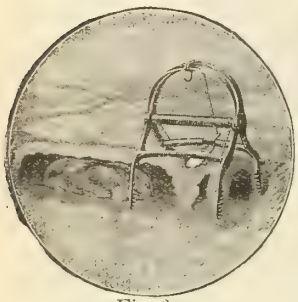


Fig. 2.

Fig. 3.

Fig. 8.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 4.

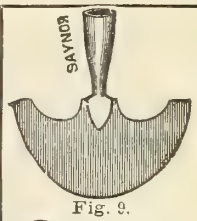


Fig. 9.

Fig. 10.

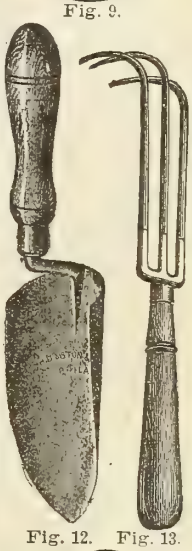


Fig. 12.

Fig. 13.

Fig. 11.

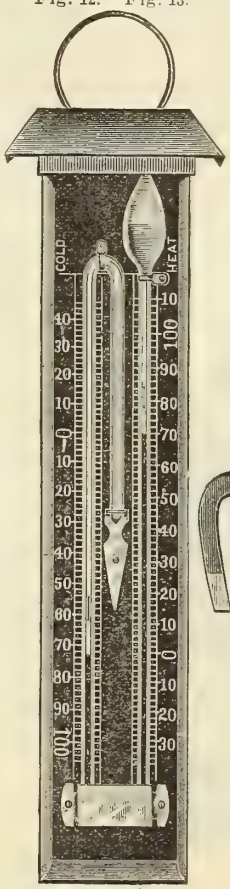


Fig. 15.

Fig. 14.

Fig. 16.

L. M. OLMSTEAD'S IMPROVED RELIABLE MOLE TRAP (Fig. 1).

No Cheap Trap So Good. No Good Trap So Cheap.

Springs are furnished to operate the trap. The spring can be readily attached and detached.

This trap is constructed entirely of steel and iron. Each trap is packed in a strong paper box, one dozen in a case.

Price..... **$1.50**

OUT OF SIGHT MOLE TRAP (Fig. 2).

Considered to be one of the best and cheapest Mole Traps on the market. Especially valuable for hot-beds and frames on account of its convenient size.

Price..... **$1.00**

THE MODEL MOLE TRAP (Fig. 3).

This, while possessing all the good qualities of other traps, is especially adapted for setting under glass.

Price..... **$1.75**

G. & T. MOLE TRAP.

This is a good Mole Trap for the money.

Price..... **$1.00**

THE LITTLE GIANT MOLE TRAP.

Self-setting by pressing down on lever. Very convenient feature found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction. Price..... **75c.**

GARDEN REELS (Fig. 4).

Small size..... **75c.** Large size..... **$1.00**

EXCELSIOR WEEDER (Fig. 5).

Price..... **10c.** Mailed..... **15c.**

LARGE HAND WEEDER (Fig. 6).

Malleable Iron Hand Weeder..... **15c.**
Solid Steel Hand Weeder..... **25c.**
By mail, 10c. extra.

DIBBERS.

For transferring plants. By far the best thing for the purpose ever introduced.

Fig. 7.—Straight, D handle, iron..... **50c.**
Fig. 8.—Right-angle shape, steel-polished, wood handle.. **40c.**

EDGING KNIVES (Fig. 9).

9 inch, American.....	**$0.50**	9 inch, Eng., black.....	**$1.35**
8 inch, Eng., black.....	**1.25**	9 inch, Eng., all bright..	**1.60**
8 inch, Eng., all bright.	**1.50**	10 inch, Eng., black.....	**1.50**
		10 inch, Eng., all bright..	**1.75**

SCUFFLE HOES (Fig. 10).

4 inches.....	**50c.**	8 inches.....	**70c.**
6 inches.....	**60c.**	10 inches.....	**80c.**

CLEVES' TROWEL (Fig. 14).

The New Garden Implement.

No. 1—Standard, 8-inch blade.....	**25c.**	Mailed,	**35c.**
No. 2—Medium, 7-inch blade.....	**20c.**	Mailed,	**30c.**
No. 3—Daisy, 5-inch blade.....	**15c.**	Mailed,	**20c.**

GARDEN TROWEL (Fig. 11).

Sixteen gauge tool steel, 6-inch blade, a socket handle that will not come out in dry weather. Price..... **15c.**

GARDEN TROWELS (Fig. 12). Each.

Best forged English steel, socket handle, strong and durable, 6-inch..... **40c**
American, No. 3090..... **30c.**
" 6-inch bright steel blade, plain handle..... **5c.**
" 6-inch tinned steel blade, enameled handle..... **10c.**

EUREKA HAND WEEDER (Fig. 13).

A Very Handy and Useful Little Instrument.

Short handle..... **25c.** Long handle..... **35c.**

THERMOMETERS (Fig. 15).

8-inch tin, japanned.....	**$0.15**
10-inch, distance reading.....	**.35**
8-inch, cabinet, No. 201 H.....	**.50**
10-inch, tin case, best quality, No. 31.....	**.60**
Porcelain scale, red spirit, No. 251, 8-inch.....	**1.00**
Porcelain scale, 10-inch, red spirit, No. 251.....	**1.25**
12-inch, tobacco curing.....	**.25**
Registering (sixes), No. 650 (see cut).....	**2.25**
Mushroom bed, brass end.....	**1.00**
Mushroom bed, extra good.....	**1.50**
Dairy or hot-bed glass float.....	**.25**
Glass floating, large.....	**.50**
8-inch standard flange, stands boiling water.....	**.50**
Milk Hydrometer, No. 2080.....	**.40**
Milk Hydrometer, No. 2085 (Quevenne).....	**.75**
Incubator, upright.....	**.75**
Incubator, reclining.....	**.60**
Brooder, No. 1307.....	**.30**
Button-hole Thermometer, a novelty.....	**.25**

If wanted by mail, add 5c. for postage.

GRASS HOOKS (Fig. 16).

American.....	**25c.**
German—No. 0.....	**20c.**
" —No. 1.....	**25c.**
" —No. 2.....	**35c.**
Best English Grass—No. 2.....	**35c.**
" " " —No. 3.....	**50c.**
" " Hedge or Grass Hooks—No. 4.....	**60c.**
" " " " " —No. 5, riveted back	**75c.**

Horticultural Tools and Supplies

Continued.

Fig. 17.

Fig. 20.

Fig. 21.

Fig. 22.

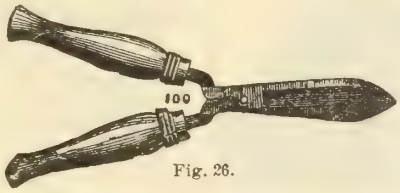


Fig. 26.

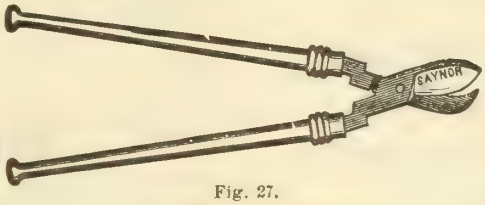


Fig. 27.

Fig. 31.

Fig. 18.

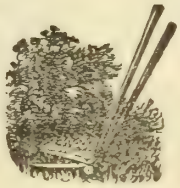


Fig. 23.

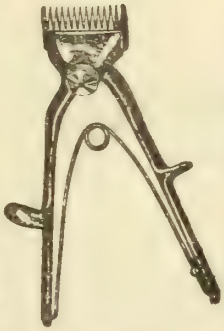


Fig. 25.

Fig. 32.

Fig. 28.

Fig. 19.

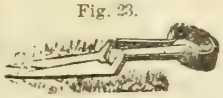


Fig. 24.

Fig. 29.

Fig. 30.

WATERS' TREE PRUNERS.

Fig. 17.

4 feet long	$ .75
6 feet long	.85
8 feet long	.95
10 feet long	1.00
12 feet long	1.10
14 feet long	1.25

Extra knives, 20 cents.

BORDER SHEARS.—Fig. 18.

Price without wheel	$2.25
Price, with wheel	2.50

HORSE SHEARS.—Fig. 19.

Bent Handle No. 1087	$ .50
Curved Handle, No. 1090	.60

By mail, add 15c.

HORSE SCISSORS.

No. 9162, extra fine $1.25

By mail, add 15c.

PRUNING SAWS.—Fig. 20.

16 inch Single ....65c.; Double	$ .60
18 inch " ....75c.; "	.70
20 inch " ....85c.; "	.80
Saw and chisel, combined	1.10

PRUNING SHEARS.—Fig. 21.

Mal. Handle, Steel blade ..... 30 and 40c.	
No. 1537, Solid Steel, ¼ polish, 8 inch	$ .50
No. 4665, Solid Steel, 9 inch	.75
No. 4666, Solid Steel, full polish, 9 inch	1.00
No. 2, French Pruning, 8½ inch	1.25
No. 4770, Ladies' nickel plate, 6 inch	1.00

If wanted by mail, add 15c.

PRUNING KNIVES.—Fig. 22.

Iron Handle, No. 126, 50c.; No. 2173, Cocoa Handle, 65c.

BUDDING KNIVES.

Prices—No. 12 ..... $1.00. No. 10 ..... $1.25

TELEGRAPH TREE PRUNERS.

Price, without pole	$1.15
Extra blades	.20
Little Giant Pruning Hook and Saw	2.00
Extra springs	.25

LAWN SHEARS.—Fig. 23.

2 wheels, 8 in. blade, for cutting on narrow borders, under fences and shrubs.. $2.75

GRASS SHEARS.—Fig. 24.

Bent Handle, No. 360	$ .35
Trowel Handle, No. 460	.50

Mail, add each 15c.

HORSE OR DOG CLIPPERS.

Fig. 25.

Very handy about horses; also for clipping dogs.

Horse, No. 179	$1.00
Horse, No. 159, Ball-bearing	1.75
Horse, No. 71, Fet Lock, Nickel Plate	1.00
Toilet or Fet Lock, Nickel Plate	.90

HEDGE SHEARS.—Fig. 26.

8 inch	$1.25.	10 inch	$1.75
9 inch	1.50.	12 inch	2.25

With Notch, 25 cents extra.

LOPPING SHEARS.—Fig. 27.

No. 3 American, or Tip Top	1.00
No. 4 American, or Tip Top	1.25
No. 1 Baltimore Draw cut	2.50
No. 2 Baltimore Draw cut	2.00

ASPARAGUS KNIFE.—Fig. 28.

Made of solid steel....30c. By mail.....40c.

ASPARAGUS BUNCHER.

Price $1.50

SHEEP SHEARS.—Fig. 29.

No. 3749..85c. No. 3755, full polished. $1.00

By mail, add 15c.

FLOWER AND GRAPE SCISSORS.—Fig. 30.

Flower Scissors 75c. No. 3774, Grape Pickers 60c

5 cents extra for postage.

FRUIT PICKER.—Fig. 31.

This cut almost speaks for itself—the device being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of Heavy Galvanized Wire, and easily adjusted to a pole....30c.

SCYTHES.

American, cheaper grade	$. 60
Grass, Bush or Briar Scythes, Best American	.75
English T. Waldron, Grass, 36 in., $1.35; 38 in. $1.40; 40 in	1.45
American Grain	1.00
English Waldron Grain, 50 in., $1.75; 52 in., $1.80; 54 in	1.90

SCYTHE STONES.—Fig. 32.

No. 1—Willoughby Creek..10c. each, $1.00 per doz.

No. 2—White Mountain..10c. each, $1.00 per doz.

No. 3—Green Mountain..8c. each, 75c. per doz.

No. 4—Indian Pond, No. 2 (red end), 5c. each, 50c. per doz.

No. 5—Mowing Machine (beveled).....10c.

No. 6—Darby Creek.....10c. each, $1.00 doz.

Cigar Emory.....10c. each, $1.00 doz.

No. 7—Imported English Talacre....20c. each.

None genuine unless labeled Sir Pyers Mostyn, Talacre Quarries.

WIRE PLIERS.

Fence Wire Cutters, 6 in. 40c.; 8 in. 50c.; 10 in. 60c.

FLORIST AND GARDEN SUPPLIES.

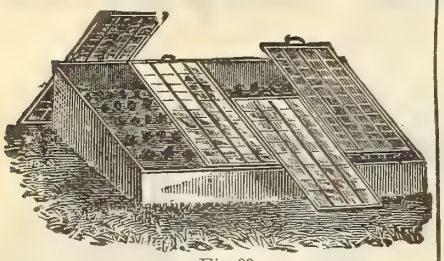


Fig 33.

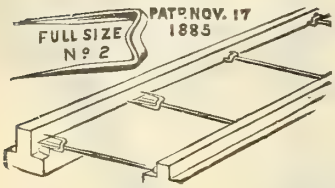


Fig. 34.

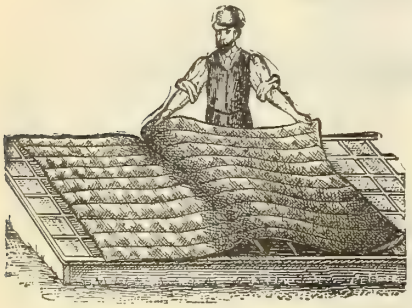


Fig. 35.

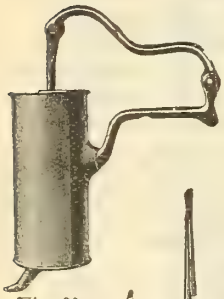


Fig. 36.

Fig. 38.

Fig. 37.

Fig. 40.

UNGLAZED HOT-BED SASH.
Fig. 33.
3x6 feet.....Price, **85c.**

PEERLESS GLAZING POINTS
(Imp. Van Reyper.)
Fig. 34.

The finest glazing points on the market. The glass cannot slip; they are quickly and easily put in with special pincers; no "rights" and "lefts" to bother with.

Per box of 1,000.....**60c.**
By mail.....**75c.**
In lots of 5,000 (by express), per 1,000..**55c.**
Pincers, per pair.....**50c.**
By mail.....**60c.**

BURLAP HOT-BED MATS.
Fig. 35.

Made of strong burlap, interlined with wool.

Price, 40x76, each.....**$0.85**
Price, 76x76, each..... **1.15**
Special Price in Dozen Lots.

PLANT BED CLOTH.

A cheap substitute for glass, and will keep out many degrees of frost. Also useful for shading material. Samples mailed on application.

Light grade..... **4c.** yard.
Piece of about 65 yards..... **3½c.** yard.
Medium grade..... **8c.** yard.
Piece of about 60 yards..... **7c.** yard.
Heavy grade.....**10½c.** yard.
Piece of about 40 yards.....**10c.** yard.

MASTICA GLAZING MACHINE.
Fig. 36. Price, **$1.25.**

Mastica. — For glazing greenhouses, sashes, etc., new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold.

"Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

Half gallon.....**$0.70**
Gallon..... **1.25**

PUTTY BULBS—Large Size.
Fig. 37.
Price..... **90c.** By mail.....**$1.00**

GRAFTING WAX.
¼ lb....**10c.** ½ lb....**20c.** 1 lb.....**35c.**

SPHAGNUM MOSS.
For packing growing Orchids, Plants, Trees, etc. Per bale.....**$2.50**

STABLE BROOMS.
For Stables, Lawns and Walks.
12-inch Rattan.....**45c.**
14-inch Rattan.....**55c.**
12-inch Bass.....**50c.**
14-inch Bass.....**60c.**

RAFFIA.
The best material for tying plants, vines, etc. Per pound, **20c.** 10 pounds, **$1.50.**
SILKALINE, spool, **25c.**

PLANT SPRINKLERS.
Fig. 38.

For sprinkling cut flowers, seedlings, plants, clothes, etc.

No. 1—Plain top, 12 ounces:.....**$1.00**
No. 1—Angle, plain top, 12 ounces.... **1.00**
No. 2—Plain top, 7 ounces..... **.85**
No. 2—Angle, plain top, 7 ounces..... **.85**
No. 3—Plain top, 7 ounces..... **.75**
No. 4—Plain top, 4¼ ounces..... **.60**
No. 1—Valvular top, 12 ounces..... **1.00**
By mail, **10c.** extra.

BRASS GARDEN SYRINGES.
Fig. 40.

No. A—Barrel 12 in. long, 1 spray and 1 stream rose.....**$2.50**
No. 12—Barrel 13 in. long, 1 coarse and 1 fine spray and 1 stream rose.....**$3.75**
No. 2—Two sprays, rose and jet, 14½x1 5/16 inches.....**$4.75**
No. 10—Barrel 18 in. long, 1 coarse and 1 fine spray and 1 stream rose with patent valves and elbow-joint.....**$6.25**

Fig. 41.

IRONCLAD WATERING POTS.
With Adjustable Nozzels.
Fig. 41.

4-quart.....	**45c.**	10-quart.....	**60c.**
6-quart.....	**50c.**	12-quart.....	**65c.**
8-quart.....	**55c.**	16-quart.....	**75c.**

Wotherspoon Make.

6-quart.....	**$1.75**	10-quart.....	**$2.25**
8-quart.....	**2.00**	12-quart.....	**2.50**

CANE STAKES.
5 to 7 feet long.
Per 100.....**$1.00** Per 1000.....**$6.50**

POT LABELS.

	Plain.	Painted.
3½ inch, per 1,000.....	**$0.55**	**$0.75**
4 " "	**.65**	**.80**
4½ " "	**.70**	**.85**
5 " "	**.75**	**1.05**
6 " "	**1.00**	**1.25**

12 inch, per 100.....**70c.**
Special price in quantities to florists.

PAINTED TREE LABELS.
3½ in., notched or pierced.....**80c.** per 1,000.
3½ in., iron wired.....**40c.** per 1,000.

LIGHT PLANT STAKES.

	Each.	Per Doz.	Per 100.
1½ feet.....	**2c.**	**15c.**	**$1.00**
2 "	**3c.**	**30c.**	**2.00**
2½ "	**5c.**	**40c.**	**2.50**
3 "	**5c.**	**50c.**	**3.50**

HEAVY OR DAHLIA STAKES.

	Each.	Per Doz.	Per 100.
3 feet.....	**7c.**	**$0.75**	**$5.25**
4 "	**9c.**	**1.00**	**7.25**
5 "	**10c.**	**1.10**	**9.00**

MARLING.
Furnished in 1, 5, 10, 15 and 20 pound bales.
Per pound..... **12c.**
Special prices in quantities.

GALVANIZED HARD STEEL PLANT STAKES.

These are a great improvement over the wooden stakes for carnation and rose beds; they are durable, neat and strong.

Length.	Per 100	Per 1,000.
2½ feet...	**$0.65**	**$5.65**
3 " ...	**.75**	**6.80**
3½ " ...	**.90**	**8.00**
4 " ...	**1.00**	**9.00**
5 " ...	**1.20**	**11.25**

MODEL CARNATION SUPPORTS.
Fig. 39.

Patent extension; 3 ring, easily erected; 7 in. diameter, 14 in. high; best support on the market.

	Per Doz.
Two-ring.....	**50c.**
Three-ring.....	**60c.**
	Per 100.
Two-ring.....	**$3.25**
Three-ring.....	**3.50**
	Per 1000.
Two-ring.....	**$30.00**
Three-ring.....	**32.50**

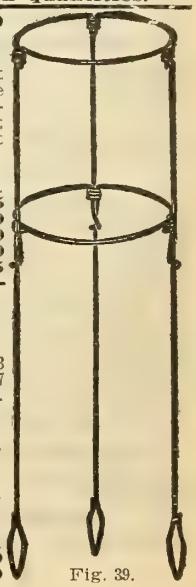


Fig. 39.

LAWN REQUISITES.

ECLIPSE SPRINKLER.

This is the cheapest and one of the most effective sprinklers made. The distribution of water is perfect.

Price.......................... 20c. By mail..........................30c.

PLANT SPRINKLERS, ATOMIZERS AND SYRINGES.

See Page 56.

THE FAIRMOUNT WEED KILLER.

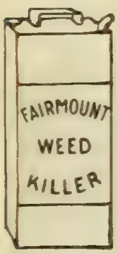
Will keep your paths and roadways clear of all organic growth, will clean and not injure marble or any kind of stone or gravel.

The best time to use it is about twenty-four hours after rain, so that it will penetrate to roots. The **Weed Killer** acts by destroying the seed, germs and roots of plants. Park and cemetery superintendents and care-takers of estates should test its valuable merits without delay.

Please note the strength of the **Fairmount** when comparing it with the low-priced weed-killers that are offered.

THE FAIRMOUNT

Is by far the cheapest.



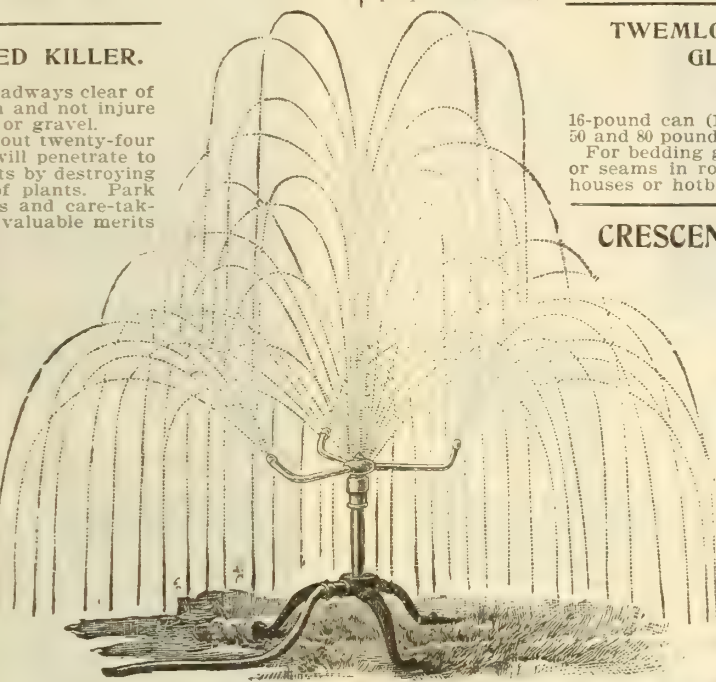
One gallon is sufficient to effectually cover from 100 to 150 square yards of surface.

It can be spread over the ground with an ordinary rose sprinkler.

Full directions on every container.

IT KILLS WEEDS SCIENTIFICALLY.

½ gallon	tin	makes 20	gallons	treating liquid	$0.75
1 "	"	" 40	"	"	1.25
5 "	keg	" 200	"	"	6.00
10 "	"	" 400	"	"	11.00
25 "	cask	" 1000	"	"	25.00
50 "	barrel	" 2000	"	"	45.00



LYONS' AUTOMATIC LAWN FEEDER.

It is a neat device attached to the hose nozzle, which dissolves a stick of concentrated fertilizer, diffusing it through as much water as will pass through garden hose in about one hour. Complete outfit, consisting of one holder and 12 of the food cartridges, prepaid, to any address on receipt of **50**c.

EXTRA FOOD CARTRIDGES, in boxes of 24, for **50**c., or prepaid for **75**c.

TWEMLOW'S OLD ENGLISH GLAZING PUTTY.

SEMI-LIQUID.

16-pound can (1 gallon capacity).........**$1.25**
50 and 80 pound kits............**$3.75** and **$6.00**

For bedding glass in sash and filling cracks or seams in roof joints or frames of greenhouses or hotbeds.

CRESCENT LAWN SPRINKLER.

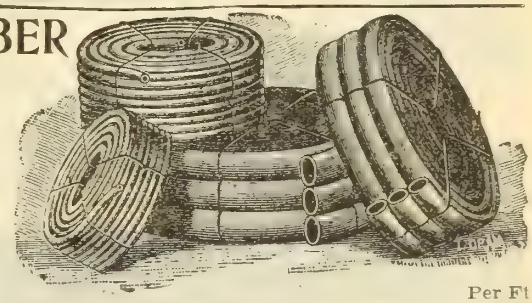
WORKS BEAUTIFULLY.

This Sprinkler is compactly and strongly made with phosphor bronze bearing, and will cover a surface 48 feet in diameter. As it has a free and unobstructed channel, there is no danger of clogging with dirty water, and therefore it fills the requirements of users of such articles better than the more expensive and larger sprinklers and will accomplish the same results. The top and arms are brass, full nickel-plated standard, the base and legs are iron, handsomely japanned.

PRICE.

12 inches high, 3 arms..**$1.50**
24 inches high, 4 arms... **2.00**
36 inches high, 4 arms... **2.50**

RUBBER HOSE



Per Ft.

TRIX.—3-ply, ¾-inch, in 25 and 50-foot lengths................. **8**c.
ORIOLE.—3-ply, ¾-inch, in 25 and 50-foot lengths (100 pounds pressure)................**10**c.
GRIFFITH & TURNER CO.'S EXTRA.—3-ply, ¾-inch, in 25 and 50-foot lengths (125 pounds pressure).................**12**c.
CREST.—4-ply, ¾-inch, in 25 and 50-foot lengths (200 pounds pressure)................**15**c
GRIFFITH.—5-ply, ¾-inch, in 25 and 50-foot lengths (500 pounds pressure)................**16**c.

HOSE REELS.

Fountain.............................. **$1.00**
Sylph.............................. **2.50**

GEM HOSE NOZZLES.

THE BEST IN USE.

Price.......................... **35**c.

For throwing fine or coarse spray or straight stream.

Hose Couplers (Brass).
Per pair...................... **15**c.

Mender Tubes.
Each...................... **5**c.
Per dozen...................... **40**c.

Hose Clamp (Sherman).
Each...................... **5**c.
Per dozen...................... **50**c.

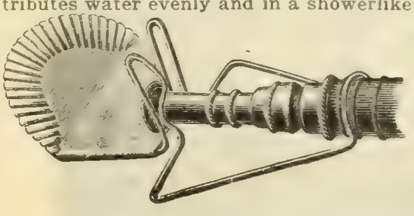
RUBBER HOSE FOR SPRAY PUMPS.

	Per Foot.
½ inch XX................	**10**c.
½ inch Spray, No. 1......	**12**c.
½ inch Spray, No. 2......	**15**c.
1 inch Baltimore..........	**20**c.

CRESCENT WAVE SPRINKLER.

Price..................................**25**c.

It is attachable to any nozzle. Can be operated from the hand. Supports nozzle in position when placed upon the ground. Distributes water evenly and in a showerlike manner.



Permits of full flow from the nozzle, thus lessening the liability of bursting the hose.

May be shifted without closing hydrant.

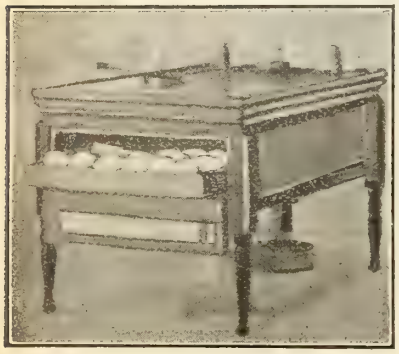
No treading on wet grass when shifting.

Not necessary to detach when reeling hose.

Durable and never out of order.

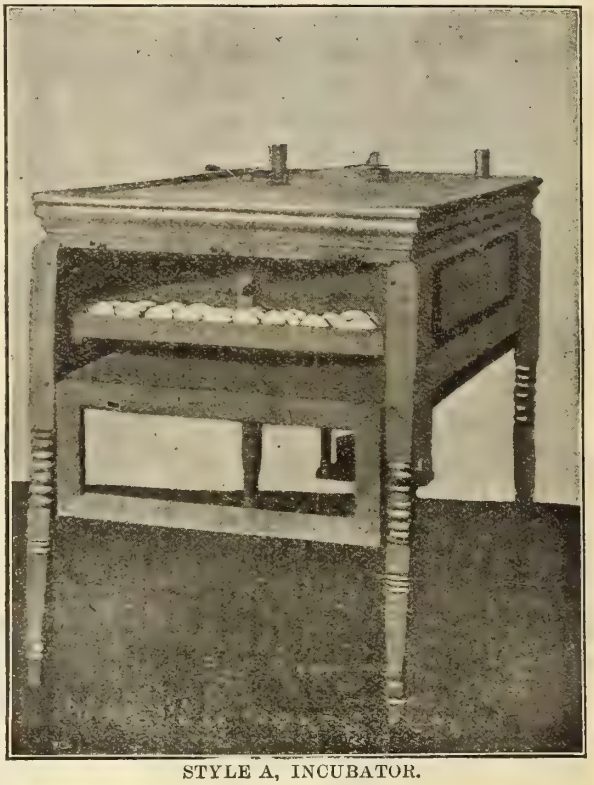
POULTRY SUPPLIES.

Prairie State Incubators and Brooders



No. 2 BABY, 100 EGGS.

PRICES on Prairie State Incubators and Brooders have been considerably reduced. Every machine is constructed of the very best material, finely finished, self-regulating, having automatic turning tray which is a very strong feature, and all machines are built over the same pattern. One machine will do just as good work as another, and no one need hesitate to send us an order for any style or size that the Company manufactures. We warrant the machines first-class in every respect.



STYLE A, INCUBATOR.

PRAIRIE STATE "SPECIALS."

No.	Dimensions.	Capacity.	Weight, Crated, Lbs.	Price.
0	15½x26½	60 to 65 eggs	80	$12.00
1	23 x34½	110 to 120 "	135	18.00
2	28½x50	220 to 240 "	240	29.00
3	28½x70	330 to 360 "	350	38.00
4	28½x95	440 to 480 "	425	50.00
288 Duck	36 x68	Duck eggs, 288 / Hen " 400	425	44.00
Goose Machine	31 x18¾	50 eggs	160	25.00

PRAIRIE STATE "BABIES."

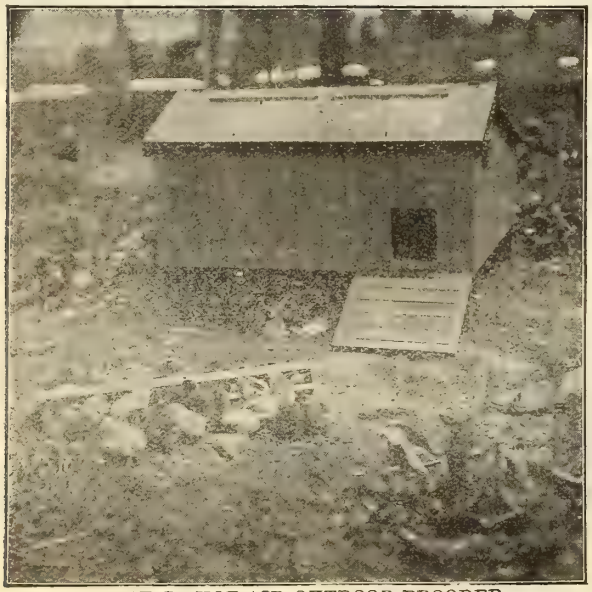
1	14½x24	50 eggs	45	6.00
2	19½x31	100 "	70	10.00

PRAIRIE STATE STYLE A.

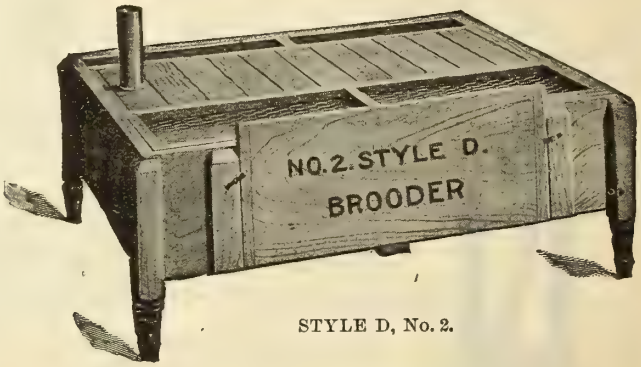
1	27 x37	150 eggs	170	20.00
2	27½x47	210 "	215	26.00

PRAIRIE STATE STYLE B.

1	27 x37	150 eggs	150	15.00
2	27½x47	210 "	195	22.00



STYLE C.—HOT-AIR OUTDOOR BROODER.



STYLE D, No. 2.

BROODERS.

STYLE D, HOT-AIR INDOOR BROODERS.

No.	Dimensions.	Capacity.	Lbs. Crated.	Price.
1	25¾ x36	80 chicks	60	$7.00
2	36 x36½	125 "	85	9.00

STYLE C, HOT-AIR OUTDOOR BROODERS.

1	36 x36	100 chicks	125	12.00
2	48 x48	150 "	185	16.00

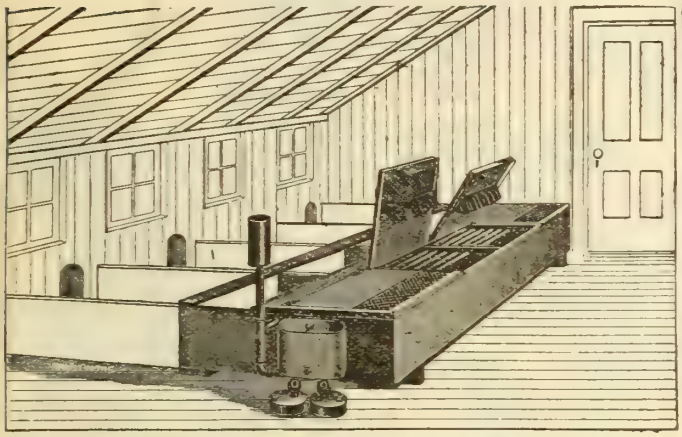
Prairie State Thermometers special tested. Metal, 75 cents, postpaid.
Burners for No. 1 Incubator Lamp, 20 cents, postpaid; for No. 2, 25 cents; No. 3, 35 cents, postpaid.
Lamps for No. 1 Incubators, 60 cents; for Nos. 2 and 3, 75 cents.
Egg Tester, 35 cents, postpaid; Brooder Lamps, 75 cents.

BROODERS CONTINUED ON NEXT PAGE.

THE POULTRY YARD—CONTINUED.

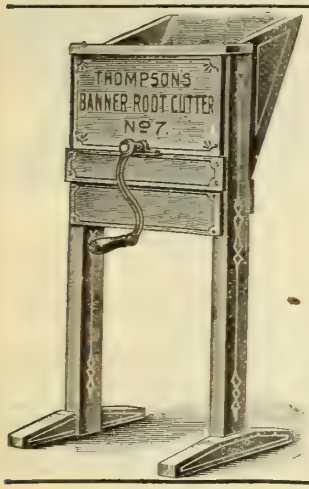
PRAIRIE STATE SECTIONAL BROODER.

STYLE B, HOT WATER.



This Brooder is intended for small or portable Brood-houses, or run in connection with the pipe system and hot water stove. It is very simple, easy to operate, easy to clean, and not hard to move from one place to another. It is provided with a movable floor that can be raised or lowered instantly.

No.	Dimensions Each Section.	Capacity.	Price.
2	Two sections 36 x 36	200 chicks	$19.00
3	Three " 36 x 36	300 "	24.00
4	Four " 36 x 36	400 "	29.00



Thompson's Jr. Banner No. 7 Vegetable and Root Cutter.

Suitable for a Flock of 50 to 1000 Fowls.

Cuts roots and vegetables into fine chicken feed. Capacity one bushel in about five minutes.

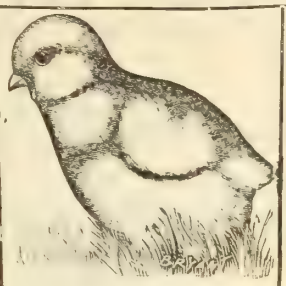
Price $5.00

Caponizing Tools.

Every poultry man knows that Capons are much larger fowls, sweeter and finer meat, and sell at a much higher price than others. You can do your own caponizing easily.

Book with full instructions sent free, with each set of instruments.

Price, in Leather Case, with instructions $2.75



Chicken Manna, or Health Food

FOR LITTLE CHICKS.

This preparation is specially prepared for little chicks when first hatched. This should be the first and only food and continue for 10 or 12 days before feeding anything else; directions for feeding on each package. 1-lb. pkg., 10 cts.; by mail, 25 cts.

5-lb. pkg., 40 cts. 15-lb. pkg., $1.10. 60-lb. box, bulk, $4.20.

EGG TESTER, Price 35c.

Nesco Galvanized Drinking Fountains.

1 qt., 25c.	Dozen, $2.50
2 qts., 30c.	Dozen, 3.00
4 qts., 50c.	Dozen, 5.00
8 qts., 75c.	Dozen, 7.50

Baltimore Fountains.

EARTHENWARE.

1 qt., 25c.	Dozen, $2.50
2 qts., 35c.	Dozen, 3.50
4 qts., 45c.	Dozen, 4.50

DEATH TO LICE.

A DISINFECTANT INSECT POWDER.

This powder is unrivalled as an insecticide; handy to use, cheap to buy and does the work quick.

15 oz. package ..	$ .25	Postpaid	$ .40
48 oz. package ..	.50	Postpaid	1.00
100 oz. package ..	1.00	By Express	

LEE'S LICE KILLER.

is the result of long experiment with various insecticides and possesses the unique advantage of not requiring contact with the vermin to kill. Being a liquid paint, it has manifold advantages over any form of powder or liquid; it is easily applied to roost-poles and about the poultry-house, and kills all vermin, mites, bed-bugs, etc., that have their lodging in the cracks and crevices.

Price, quart, 35c.; half gallon, 60c.; gallon, $1.00; 5 gallons $4.00

PERSIAN INSECT POWDER.

Per lb., 40c.; 5 lbs., $1.75.

CAST-IRON POULTRY TROUGHS.

No. 0—8 inches long, 3¼ inches wide at top, 1¼ inches deep..... 20c.
No. 1—20 inches long, 4 inches wide at top, 1½ inches deep..... 40c.
No. 2—23 inches long, 7 inches wide at top, 3 inches deep..... 60c.
No. 3—29 inches long, 7 inches wide at top, 3 inches deep..... 75c.

MANN'S SWINGING FEED TRAY.

18 inch $1.00
27 inch 1.25

POULTRY NETTING.—FOR ENCLOSING POULTRY YARDS.

The Wire we offer is all Nos. 19 and 20 double twist, 2-inch mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.

PRICES 2-INCH MESH.

No.	in. wide.	sq. ft.	per bale.	No.	in. wide.	sq. ft.	per bale.
19,	12	150	$ .75	20,	12	150	$ .68
"	18	225	1.12	"	18	225	1.05
"	24	300	1.50	"	24	300	1.35
"	36	450	2.25	"	36	450	2.02
"	48	600	3.00	"	48	600	2.70
"	60	750	3.75	"	60	750	3.37
"	72	900	4.50	"	72	900	4.05

Price, 1 cent per sq. ft. in less than bale lots. Staples for fastening, 10c. per lb.

GAPE EXTRACTOR. Price 25c. each.

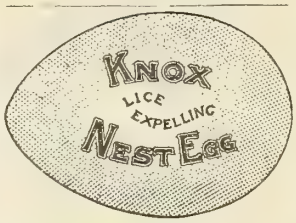
THE POULTRY YARD CONTINUED.

The only positive preventive and cure for Gapes and Poultry Cholera, and a most excellent medicine for young Turkeys that have been exposed to the weather; also an excellent medicine for horses, cattle, sheep and hogs. All who have used Haven's Climax Condition Powders once will have it again.

13-oz. package 25c By mail, 40c
32-oz. packages, 50c 5-lb. box $1.00

WIRE HEN NESTS.

15c each; $1.50 per dozen.



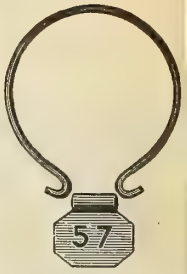
Lice Killer and Nest Egg

COMBINED IN ONE,

Lasting, Effective,
Not Expensive.
Do not affect the flavor of the egg or injure it for hatching.

60c. dozen.

CLIMAX LEG BANDS.



Made of spring brass, and so made that the tag acts as a clasp, holding them securely in place. Price, per dozen, 20c. Per 50, 60c. Per 100, $1.00

PORCELAIN NEST EGGS.

The best and cleanest nest egg used. Each, 5 cts. dozen, 25 cts.—by mail, 50 cts.

POULTRY MARKER.

This little instrument is used for marking young and old chickens. It is invaluable to breeders and farmers. They are made in two sizes for large or small chicks; nickle-plated, have steel cutter and spring, and are made small and neat to carry in the vest pocket. Sent by mail on receipt of price, ... 25c

FRENCH POULTRY KILLING KNIFE.

The most expeditious and humane way of killing and dressing poultry is by the French method. These knives are made of the finest steel. Price, with instructions, each..... 50c

KAFFIR CORN—Red or White.

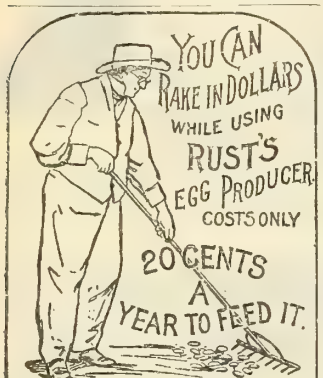
Makes excellent food for poultry or pigeons, either fed in the grain or ground and cooked. Also an excellent forage plant. Sow four to five pounds to acre. 5 lbs., 25 cts. Special price in quantity.

HAVEN'S ROUP PILLS.

For the cure of Roup, Catarrh, Colds, etc. Box..... .....25c

Sheridan's Condition Powder.

Strictly a medicine to be given in the food, once daily, in small doses. Prevents and cures all diseases of hens. Worth its weight in gold when hens are moulting. Price, small packages, 25c., 5 for $1.00; large packages, $1.00, by mail $1.25; 6 large packages, by express, $5.50.



Rust's Egg Producer.

This has given our customers universal satisfaction. It supplies those substances which produce Egg growth and development. So moderate in price, it should be used winter and summer.

1-lb. package, 25c., 2½-lb. package 50c., 6-lb. box, $1.00.

If to be sent by mail, add 16 cents per lb. to pay postage.

Pratt's Poultry Food will make hens lay all the year, and is excellent for feeding young chicks. For large fowls mix one oz. with the food for 15 or 20. For 15 or 20 chicks give ½ ounce every other day. 1½-lb pkg. 25c; 5-lb pkg. 60c; 12-lb bulk $1.25; 25-lb bulk $2.50.

Pratt's Food for Horses. 7 lbs, 50c; 12½ lbs, 75c. 25 lbs., $1.50.

Pratt's Animal Regulator, 25c. package.

PRATT'S LICE KILLER.

• TRADE MARK REGISTERED •

CANARY, PIGEON and PARROT FOOD.—CANADA FIELD PEAS—Peck, 50c.; bushel, $1.60. BUCKWHEAT—Quart, 10c.; peck, 40c. HEMP SEED—Lb., 8c.; 4 lbs., 25c. CANARY SEED—8c. lb. BIRD RAPE—8c. lb.

GRANULATED CHARCOAL.

A little ground charcoal, mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy.

1 lb., 10c.; 5 lbs., 30c., 10 lbs., 50c.; 25 lbs., $1.00; 100-lb. bag, $3.50

CLOVER MEAL FOR POULTRY.

By all odds the best and most economical way of feeding clover. Can be fed in mash with other food. 50-lb bag, $1.25; 100-lb bag, $2.00

CUT CLOVER HAY.

Excellent food for winter and early spring.

50-lb. bag, $1.25; 100-lb. bag, $2.00

GROUND BEEF SCRAPS.

Our ground beef scraps are especially prepared. Feed three times a week at the rate of about a handful to every three birds in the morning meal of hot food. During warm weather the scraps need not be fed more than once a week. 5 lbs. 25c; 10 lbs. 40c; 50 lbs. $1.25; 100 lbs. 2.75

MEAT MEAL.

This is a true egg-producing, flesh and bone-forming food, and supplies just what laying hens and growing chicks require. It is not a medicine. It is fed with other foods. Fed to small chicks about three times a week will promote health, growth and vigor.

5 lbs., 25c.; 10 lbs., 40c.; 25 lbs., 75c.; 50 lbs., $1.25; 100 lbs., $2.75

CRACKED POULTRY BONE.

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. The bones are extra selected, being first boiled to remove the meat, and then ground. No chemicals whatever are applied to them in the course of manufacture, so that they are turned out green and pure. Should be fed to the poultry daily, about a handful to every five fowls, like grain or any other feed. An excellent bone and egg producer, keeping the fowls strong on their legs and largely increasing their laying qualities. 5 lbs. 25c; 10 lbs. 40c; 35 lbs. $1.00; 100 lbs. $2.50

BONE FLOUR FOR POULTRY.

For mixing once a day with soft feed this is unsurpassed. Laying hens and young chickens, whose digestive powers are not strong, are much benefitted by this, especially during winter months, or where closely confined in yards. This is exactly the same as the cracked bone described above, only it is ground much finer.

5 lbs., 25c.; 10 lbs., 40c.; 30 lbs., $1.00; 100 lbs., $2.50

CRUSHED OYSTER SHELLS.

This is a most important article for the poultry yard through the winter, and should be liberally supplied to the fowls. In summer, when left to run at large, they can find their own shell-making material, but when everything is frozen or covered with snow, they must be helped out if eggs are wanted. 5 lbs., 10c.; 100-lb. bag, 50c.; 500-lb. bag, $2.00

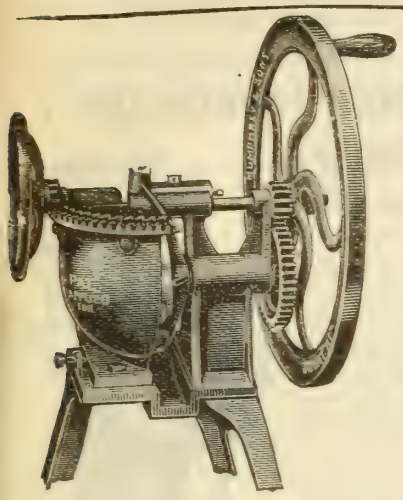
Special prices in large quantities.

MANN'S GRANITE GRIT AND MICA CRYSTAL GRIT.

To aid digestion it is necessary to feed some gritty material. These supply this want better than any other article known. 5 lbs., 15c.; 100 lbs., 90c.; 200 lbs., $1.75; 500 lbs., $4.00.

THE POULTRY YARD.—CONTINUED.

BONE CUTTERS, MILLS, ETC.

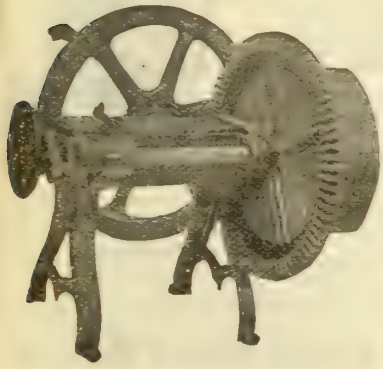


Humphrey Green Bone and Vegetable Cutter.

The knives of the Humphrey Cutter act upon the shear principle, producing a granulated cutting, without question the best form in which to feed green bone. An eight-year-old boy can take out the knives, sharpen them on a common grindstone and replace as readily as a finished mechanic. Easily kept clean. Requires no hacking of the bones with an axe.

No. 1	Hand Power.	$12.00
" 2	Semi-Power .	13.50
" 2½	Hand and Power.....	15.00

DANDY GREEN BONE CUTTER.



This is one of the simplest and best cutters made. Has automatic feed. The knives are made from the best tool steel and finely tempered. There is one plain and two corrugated knives. Can be changed to cut coarse or fine.

OUR No. 0 DANDY

Price with Balance Wheel	$ 7.00
Price without Balance Wheel	5 00
No. 1.	10.00
No. 2, same as No. 1, except it has a split nut in the feed wheel which facilitates the working of the feed screw.	12.00
No. 3, for hand and power	18 00

GEARED DANDY CUTTERS.

The geared machines will cut faster and having four knives will cut just as fine as the others.

No. 9.	Geared	Price,	$12.00
No. 11.	"	"	15.00
No. 12.	" with split nut	"	17.00
No. 13.	" for power	"	20.00
Pulley for belt		"	2 00

WILSON'S CROWN GREEN BONE MILL.

This machine is especially made for cutting Green Bone with meat on, right from the butcher, or offal's of bone and meat from the table.

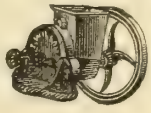
Turns easy, fine and fast.

With Stand 80 lbs	$8.50
Without Stand 50 lbs.	6.50

No. 0 FOR GRAIN ONLY.

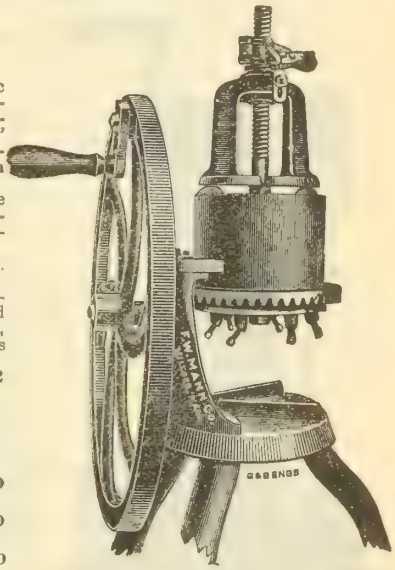
An excellent mill for grinding grain of all kinds.

Weight, 30 lbs. Price $5 00



MANN'S BONE CUTTERS.

MANN'S BONE CUTTER
1902 MODEL.



The feed is both automatic and self-governing and successfully adapts itself automatically to the operators' strength and the self-governing feed never feeds faster than the operator can cut easily.

The cutting device is the latest pattern and is guaranteed to do the work successfully and satisfactorily.

Cuts all gristle and meat. Nothing escapes uncut.

A bone cutter that successfully cuts all kinds, hard and soft bone gristle and meat, and will not clog or choke is the cutter to buy.

Mann's New Model 1902 will certainly do it.

PRICES MANN'S CUTTERS.

No. 5C, with crank handle	$6.00
No. 5 B with balance wheel.	8.00
No. 5 BM, with balance wheel, on iron stand.	10.40
No. 7 with balance wheel, on iron stand	$12.00
No. 11, Power Machine	26.00

Other Hand and Power Machines' prices on application.

No. 5 C, capacity not quite equal to 5 B.

No. 5 B, same machine as 5 BM. Same capacity, but has no iron stand

No. 5 BM intended for 15 to 25 hens. Mounted on iron stand. Capacity, 15 to 20 lbs. per hour.

No. 7, intended for 40 to 100 hens. Capacity, 30 to 60 lbs. per hour.

No. 11, intended for large flocks of over 100 fowls. Capacity, 100 lbs. per hour.

The capacity of these machines is approximate, as it cannot be stated positively. It depends entirely upon how the operator sets the machine and how fast he turns the power wheel. It is within his own control.

MANN'S CLOVER CUTTER.

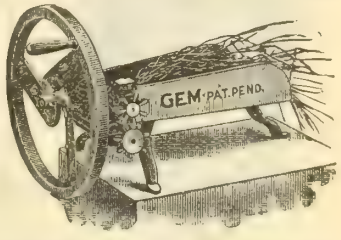
Made entirely of iron and steel.

No. B, with balance wheel	$ 8.00
No. BM, with balance wheel, on iron stand	10.00

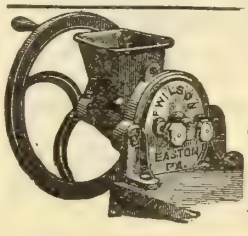
THE GEM CLOVER CUTTER.

ALL IRON AND STEEL.

CUTS GREEN OR DRY FINE.



Price	$ 9.00
" with legs	10.00



WILSON'S BONE AND SHELL MILL.

No. 1.—Grinds oyster or clam shells and dried bones, and is an excellent mill and largely used.

Will also grind corn.

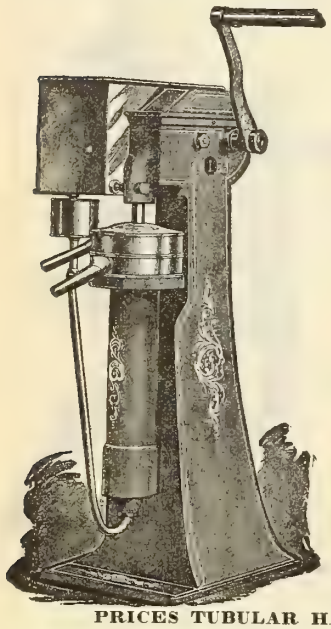
Weight, without stand, 53 lbs.	$5.00
Weight, with stand 64 lbs.	7.00

THE DAIRY

SHARPLES' CREAM SEPARATORS.

FREE TRIAL.—Any dairyman can arrange with us for an ABSOLUTELY FREE TRIAL of any of the Dairy Sized Separators. There will be no obligation whatever to buy or keep it, if not perfectly satisfactory in every particular. All we ask is a guarantee for its prompt return in case it is not wanted.

TUBULAR HAND SEPARATOR.



Suspended Bowl, Bottom Feed, Low-down Supply Can, Easy Running, No Discs.

THESE tubular dairy machines mark a new era in the construction of Dairy Cream Separators.

The bowl of the 650-pound machine is only 2½ inches in diameter and weighs less than 7 pounds, including every revolving part, and requires even less power to run it at its full capacity than any 330-pound per hour hand machine in existence.

All the objectionable features of discs, cones, cylinders and other devices introduced in the bowl to facilitate separation, together with their attendant expense and maintenance, and the great amount of time and work required to clean and keep in perfect working order are forever done away with in the tubular bowl, and by reason of its small size and light weight the power necessary to run it to its fullest capacity is reduced to a minimum. **No Discs, please remember.**

PRICES TUBULAR HAND SEPARATORS.

No. 2—Tubular Hand Separator, 275 pounds per hour.....	**$75.00**
No. 3—Tubular Hand Separator, 350 pounds per hour.....	**90.00**
No. 4—Tubular Hand Separator, 450 pounds per hour.....	**100.00**
No. 6—Tubular Hand Separator, 650 pounds per hour.....	**125.00**
No. 9—Tubular Hand Separator, 900 pounds per hour.....	**150.00**
Pulley Power Attachment (extra).....	**2.50**

Can also furnish Factory Tubular Separator in two sizes; prices on application.

Steam Turbine Tubular Dairy Separator.

DRIVEN DIRECT FROM THE BOILER.

You Don't Turn Them By Hand—That is their great advantage over the best hand separator made. Just turn on the steam; an hour's run will not seem so long and tiresome as a fifteen minutes' run of a hand separator. A steam machine of same rated capacity will answer for nearly double the number of cows, as it runs continuously with no manual effort. Just a jet of steam, not much larger than would go through a straw, drives it to full speed.

An Armload of Wood, or a bucket of coal will furnish the needed fuel for the smaller machines for an hour's run. After being properly started, no other attention is needed than the supplying of sufficient milk.

The bowl when apart has a wide-open mouth and not much more trouble to clean than a tin cup would be. In cleaning there is no danger of misplacing small complicated parts, for it has no such parts.

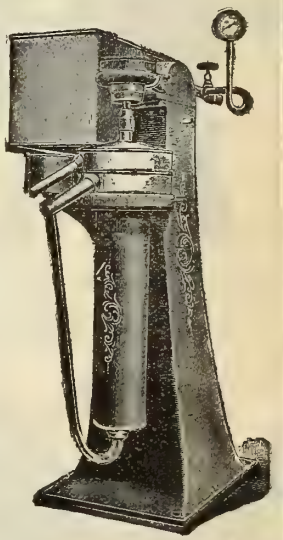
MADE IN THREE SIZES.

No.	Capacity.	Price.
4	500 pounds per hour.....	**$125**
6	700 pounds per hour.....	**150**
9	1,000 pounds per hour.....	**175**

Either size, with Little Giant Boiler, **$50** extra.

SEPARATOR OIL.

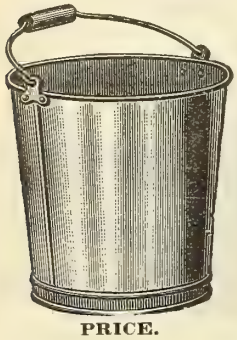
Per gallon can.....	**$0.75**
Five-gallon can.....	**2.50**



Tubular Steam Turbine
A small power separator for dairymen who do not want to run a separator by hand.

MILK PAIL.

MADE OF BEST TIN.



PRICE.

No. 110—10 quarts.....	**30c.**
No. 112—12 quarts.....	**40c.**
No. 510—10 quarts.....	**45c.**
No. 512—12 quarts.....	**50c.**
No. 514—14 quarts.....	**60c.**

Rice's Calf Weaners.

Also Prevents Cows From Sucking Themselves.

No. 1—For Calves.....	**30c.**
No. 2—For Heifers.....	**50c.**
No. 3—For Cows.....	**75c.**

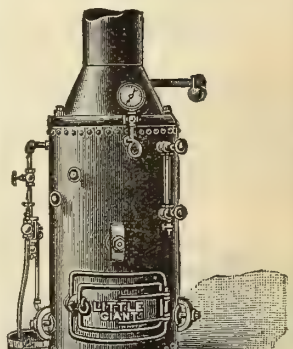
The Sharples Little Giant Boiler.

This Boiler is built expressly for use with our Tubular Steam Turbine Separators, although any small boiler or feed cooker will answer the purpose, as they require no more steam than will go through a good-sized straw.

The first cost of a Steam Turbine machine and Little Giant Boiler is a little more than the first cost of a corresponding capacity hand separator, but taking into consideration the fact that the former can be conveniently operated for a longer time and larger dairy and also that the boiler is worth its full cost for furnishing hot water and steam for the many uses about a farm, and the increased convenience of a Steam Turbine machine over a hand separator, will commend the same to your careful consideration.

These boilers are fully trimmed and provided with an injector.

Price, complete..... **$50.00**



MESSRS. GRIFFITH & TURNER CO.

I bought a No. 2 Sharples Tubular Separator from you and will say the machine does more than I expected of it. I like the low-down feature and the simplicity of the bowl. I could not be persuaded to buy ———— makes, but will not be without a Sharples Tubular. I am more than satisfied with it.

LEWIS SEIBEL.

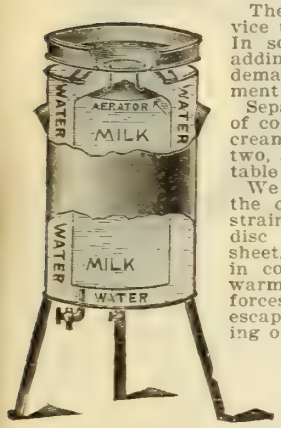
MESSRS. GRIFFITH & TURNER CO.

I bought a No. 6 Sharples Tubular Separator from you and have been using same about two months. I am perfectly satisfied with the machine and find it will do all you claim for it. In fact, I find it will do more, having separated 720 pounds per hour and machine is only listed for 650 pounds. I like the low-down feature and the simplicity of the bowl.

EDWARD C. SAUTER.

THE DAIRY
CONTINUED.

THE "NORTH STAR"
VENTILATING AND AERATING DOUBLE COMPARTMENT
Cream Separator.



There has long been a demand for a device that would not mix milk and water. In some localities people are averse to adding water to milk, and to meet this demand we are putting a two-compartment separator on the market.

Separation is effected by a circulation of cold water in an outer jacket. All the cream rises to the surface in an hour or two, and is drawn off sweet, suitable for table use or other purposes.

We show only one-half the separator, the cover being reversed with the milk straining through it. The milk strikes the disc below and spreads out in a thin sheet. The milk receptacle being plunged in cold water, when this thin sheet of warm milk strikes the sides and bottom, forces cold air upwards through the milk, escaping in sheets from aerator, thus driving out all animal heat or foul gases.

No.	Capacity.	Price.
1.	1 to 2 cows	$6.00
2.	3 to 4 cows	7.00
3.	4 to 5 cows	8.00
4.	5 to 6 cows	9.00

Write For Special Discount For Cash.

"IRON CLAD" MILK CANS.
The Baltimore Pattern.

BALTIMORE PATTERN

This cut illustrates it. It is the standard "Iron Clad" Baltimore Pattern Milk Can.

Smooth inside surface, without crevices or protruding rivet heads, which enables cans to be **easily, quickly** and **thoroughly cleaned.**

"Iron Clad" Milk Cans are made of **steel and heavily tinned** by the **hand dipping process AFTER they are formed.**

Look for the **Trade Mark "Iron Clad"** stamped in each and every can. No other tin-plate cans bear this trade mark

We also carry a cheaper can, known as the

COMPETITION BALTIMORE,

In order to meet the demand for a lower-priced article.

They are well made, but not so heavily tinned.

Our charge for marking name on can will be 25 cents each.

THE BALTIMORE PATTERN.

20-quart	$2.25
30-quart	2.50
40-quart	3.00

Special Prices In Quantities.

BALTIMORE CREAMERY CAN.

20-quart	$1.85
Marking names on all cans	25c.

The "Doty" Ventilating and Aerating Cream Separator.

For the benefit of persons who do not object to mixing water and milk for the purpose of facilitating the separation of cream, we offer the Doty Single-Compartment Separator.

The **reversible cover** and **anti-whirlpool bottom,** also the method of **aerating** the milk are the same as found in the **NORTH STAR.** The only difference in the two lies in the single and double compartment feature.

PRICES:

No. 0— 8 gallons—1 to 2 cows	$4.00
No. 1—10 gallons—2 to 3 cows	5.00
No. 2—15 gallons—3 to 4 cows	6.00
No. 3—22 gallons—4 to 7 cows	7.00
No. 4—29 gallons—7 to 10 cows	8.00

Write For Special Discount For Cash.

Aquatic Cream Separator.

FOR THE RAPID SEPARATION OF CREAM FROM MILK BY THE DILUTE PROCESS.

By using this Cream Separator the separating may be done in any convenient place, as the milk goes direct from the cow to the separator. No machinery to run or look after. **No ice required.** No chemicals used. Will run itself while you are doing other work. Within 30 to 60 minutes the cream is all raised; you turn the faucet, draw off the milk, then the cream, wash the Separator, and the job is done. Use as much good well water as milk.

PRICE LIST OF AQUATIC CREAM SEPARATORS.

No. 0—Capacity, 7 gallons, for 1 to 2 cows, 60 pounds of milk per day. Price..... **$5.00**

No. 1—Capacity, 11 gallons, for 2 to 4 cows, 100 pounds of milk per day. Price..... **$7.00**

No. 1½—Capacity, 18 gallons, for 3 to 4 cows, 150 pounds of milk per day. Price..... **$8.00**

No. 2—Capacity, 30 gallons, for 5 to 7 cows, 200 pounds of milk per day. Price..... **$9.00**

No. 3—Capacity, 50 gallons, for 8 to 15 cows, 400 pounds of milk per day..... **$11.00**

Directions Furnished With Each Separator.

IOWA.

Iowa Creamery Can.

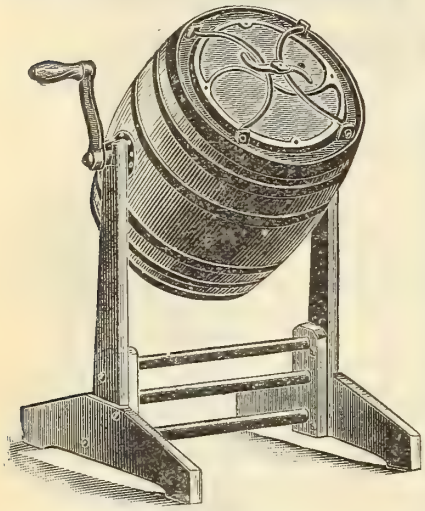
Marking names on all cans, 25c. each.

SPECIAL PRICES IN QUANTITIES.

	Price.
20-quart	$1.75
32-quart	2.00
40-quart	2.15

THE DAIRY
CONTINUED.

Baltimore Favorite Churn.



Patented July 5, 1891.

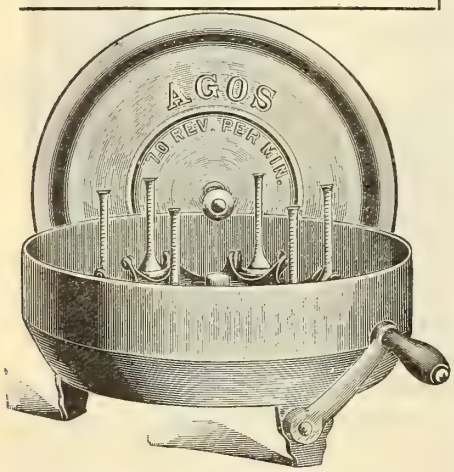
IT is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong, and not liable to break. The balls are fastened to the iron ring, where they need to be fastened.

We furnish pulleys for power. Prices extra, according to size desired. Directions for using in each Churn.

Write for special discount for cash.

PRICES.

No.			To Churn.		List Price.	Retail Price.
0.	6 gallons.		3 gallons.		$8.00	$5.00
1.	10	"	5	"	9.00	5.25
2.	15	"	7	"	10.00	5.50
3.	20	"	10	"	11.00	6.25
4.	25	"	12	"	14.00	7.50
5.	35	"	17	"	16.00	10.00
6.	60	"	30	"	26.00	16.00
7.	75	"	37	"	30.00	18.50
8.	90	"	45	"	35.00	26.00

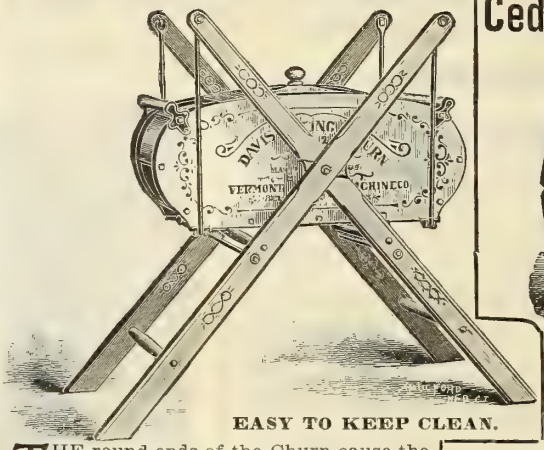


They are made in five sizes as follows:

4	bottles	$8.00
6	"	9.00
8	"	10.00
10	"	12.00
12	"	14.00

Prices on Extras Furnished on Application.

DAVIS SWING CHURN.



EASY TO KEEP CLEAN.

THE round ends of the Churn cause the cream as it strikes against them to slide up and over, turning a complete somersault, consequently the cream is thoroughly agitated.

The butter comes in beautiful granules in the most desirable form for washing in cold water or brine.

Each Churn has a glass indicator in the cover, thus enabling the operator to tell when the butter comes without raising the lid. The lid is ventilated and there is no slopping or dripping of cream. Easy to operate; in fact, any child can do it.

No.	Will Churn.		Capacity.		Price.
1.	4 gallons or less.		8 gallons.		$7.00
2.	5 "	"	10	"	8.00
3.	8 "	"	16	"	10.00
4.	10 "	"	20	"	12.00
5.	13 "	"	26	"	15.00
6.	17 "	"	34	"	18.00
7.	30 "	"	60	"	25.00
8.	40 "	"	80	"	30.00
9.	50 "	"	100	"	35.00

THE "AGOS."
CAST IRON FRAME HAND BABCOCK TESTER.

Has latest improved cast iron body and cover, spur and spiral gearing with machine cut teeth, removable malleable iron bottle head, seamless brass swinging pockets with reinforce ring and the bottles can swing perfectly horizontal when in motion, ball bearings which make it turn easier and run more smoothly and quietly than others. In fact, the "Agos" combines all the essentials of a perfect Babcock tester.

The hand "Agos" is similar to the steam turbine "Agos" which is so popular among its many users, and is sure to give satisfaction to all those who desire a perfectly **Accurate, Efficient, Simple, Durable** hand tester.

Owing to the fact that the gears are cut out of solid metal, these testers run practically noiseless, and are much better than the cheap made testers.

The gearing is so arranged that a very high speed is obtained easily, which is one of the important requisites of a tester.

The "Agos" Tester takes up little room and uses the ordinary Babcock bottle, the "B. & W." or the "Ohlsson" patent bottles. With each tester is furnished the following outfit: Full set of regular Babcock milk bottles, pipette, acid measure, acid sufficient for making 50 to 100 tests, and directions for manipulating. All testers are fitted with the ordinary milk bottles unless different bottles are ordered. For additional price for cream or composite bottles, write for price list of extras.

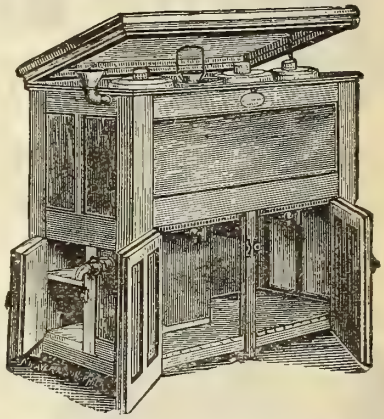
Are also prepared to furnish the Facile Babcock Testers. Write for prices.

Improved Cedar Cylinder Churns.

There are a number of Cylinder Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected cedar, free of knots.

No.			Retail Price.	List Price.
1.	2¾ gallons....		$1.75	$2.50
2.	4 "	....	2.00	3.00
3.	7 "	....	2.35	3.50
4.	10½ "	....	2.75	4.00

STODDARD CREAMERY.



With or without special refrigerator, thorough in construction, simple in operation, accurate in its workings.

FAMILY CLASS.
Each Can Holds 2½ Gallons.

No.	No. of Cans	No. of Cows	Plain Creamery	With Special Refrigerator
2	2	2	$20.00	.....
3	3	3 to 4	26.00	$31.00
4	4	5 to 6	32.00	37.00

DAIRY CLASS.
Each Can Holds 5 Gallons.

No.	No. of Cans	No. of Cows	Plain Creamery	With Special Refrigerator
2	2	5 to 6	$25.00	.....
3	3	7 to 9	31.00	$36.00
4	4	10 to 12	37.00	42.00
5	5	13 to 15	43.00	48.00
6	6	15 to 18	49.00	54.00
8	8	20 to 24	61.00	66.00
10	10	25 to 30	73.00	78.00
12	12	30 to 36	85.00	90.00

Subject to special discount.

No. 2 Family Class and No. 2 Dairy Class are not made with separate refrigerator compartment unless so ordered.

The above prices do not include partitions, nor more than one water faucet. If partitions or extra water faucet is wanted they will be furnished at **$1.00** each.

THE DAIRY
CONTINUED.

CHAMPION AUTOMATIC MILK COOLER-AERATOR.

DESCRIPTION.—This apparatus spreads the milk over a large surface for cooling, at the same time exposing it to the contact and influence of the air. In the bottom of the receiver is a cricle of fine holes; the milk runs through these holes and spreads over the large flaring surface, cooled by the water inside, while the air carries off all odors, rendering the milk sweet and cool. When it reaches the gutter it is held in contact with the cooler at its coldest point while flowing around to milk outlet. It is as easily cleaned as a milk pan.

TO OPERATE.—Set as low as possible where there is plenty of pure, fresh air; if the wind blows, the better. It can be used in the strongest wind without a drop being blown away. Use very cold water. Use a cloth or metal strainer over the top of milk receiver.

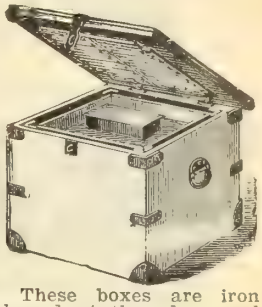
PRICES CHAMPION COOLER.—The following sizes of the Champion Cooler are gauged as nearly as possible to take care of the milk as fast as drawn from various sized dairies with the average number of milkers. Be sure to get one large enough, as best cooling results are obtained with low pressure of milk in the receiver.

No.	Capacity of Milk Receiver.	Size of Dairy.	Takes Care of	List Price.	Retail Price.
1	10 quarts.	1 to 10 cows.	2 Milkers.	**$7.00**	**$5.50**
2	18 quarts.	10 to 25 cows.	3 Milkers.	**7.00**	**5.50**
3	34 quarts.	25 to 50 cows.	5 Milkers.	**8.00**	**6.50**
4	52 quarts.	50 to 100 cows.	8 Milkers.	**10.00**	**8.00**

Extra sizes on special orders. Prices include double cheese cloth strainer and spring pins.

STRAINERS.—Strainers of the finest mesh wire cloth (100 meshes to the inch) furnished at following prices; Nos. 1 and 2, **$1.** No. 3, **$1.25.** No. 4, **$1.50.**

BUTTER BOXES.

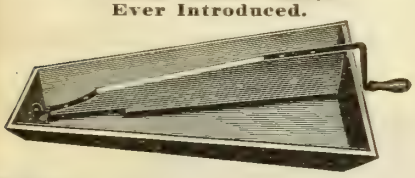


These boxes are iron bound at the edges and capped at the corners. An ice box is fitted in centre, which can be removed at will and the space utilized

Capacity.	Price.
36 half-lb. prints	**$4.50**
64 " "	**5.25**
80 " "	**5.50**
100 " "	**6.00**
120 " "	**6.50**
140 " "	**7.00**
20 pound "	**3.75**
30 " "	**4.25**
40 " "	**4.75**
56 " "	**5.00**
80 " "	**5.50**
96 " "	**5.75**
120 " "	**6.00**

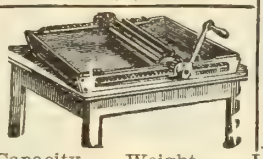
ACME BUTTER WORKER.

The Greatest Labor-Saver for the General Butter Maker Ever Introduced.



It is the only worker made in which butter can be washed (same as in a bowl), then the water drawn off and the butter worked without delay. **$7.00.**

REID'S BUTTER WORKER.



Inside Measurement.	Capacity.	Weight.	List Price.	Retail Price.
No. 1.—23x36x2½ inches	50 pounds.	45 pounds.	**$10.00**	**$8.00**
No. 2.—20x36x2½ inches	30 pounds.	29 pounds.	**8.00**	**6.40**
No. 3.—17x27x2½ inches	20 pounds.	25 pounds.	**7.00**	**5.60**
No. 4.—14x24x2½ inches	10 pounds.	20 pounds.	**6.00**	**4.80**

Larger size, especially designed for mixing, re-working and coloring, or creamery use.

Inside Measurement.	Capacity.	Weight.	List Price.	Retail Price.
No. 0.—23x37x3 inches	75 pounds.	60 pounds.	**$12.50**	**$9.38**
No. 00.—23x56x3 inches	112 pounds.	80 pounds.	**15.00**	**11.25**
No. 000.—23x72x3 inches	150 pounds.	100 pounds.	**18.00**	**13.50**

When desired, we can send legs along with any size machine for **$4.00** extra, which can be set up after arrival at destination.

PARCHMENT BUTTER PAPER.

It can be used in all cases where wax paper, tin foil, or muslin has been adopted, and in many cases where these cannot, for preserving goods from the effects of moisture, etc. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pounds, and 10x15 for two pounds. Price, **20**c. per pound; by mail, **35**c.; six pounds, **$1.00.**

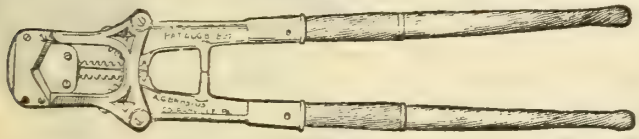
WELLS, RICHARDSON & CO.'S BUTTER COLOR.

Will not color the buttermilk; will never turn rancid; gives the brightest and best color; butter never becomes reddish; perfect economy in use. It is cheaper than any other coloring, being put up in three sizes, selling at **25**c. to color 500 pounds; **50**c. to color 1,250 pounds; **$1.00** to color 2,800 pounds.

THE KEYSTONE DEHORNING CLIPPERS.

The practice of dehorning cattle is coming more and more into vogue. It is a mercy to the animals. Prevents goring. Does not crush the horns. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced at any time. It is approved by veterinary surgeons and leading dairymen.

"The horns must go, and they cannot go too soon."



PRICE.

Clipper, with leader and rope, extra blades and screw, fully warranted..... **$12.00**
Clipper alone..... **10.00**

We furnish a cheaper Clipper than the above that is superior to any of the cheap Clippers made, but do not recommend it as broadly as the Keystone, which has no equal. Price, **$8.00.**

PERFECTION CALF DEHORNER.

ANYONE CAN OPERATE IT.

PRICE LIST.

Perfection Calf Dehorners, including sample box of Perfection Cream, and full instructions for operating, etc.

Net, Plain..... **$3.50**
Net, Nickel Plated..... **5.00**
Perfection Cream, per pound..... **.50**

Discount on Five-Pound Orders.

FLOATING GLASS THERMOMETERS.

Price..... **25**c. each.
Eight-inch Dairy Thermometer stands boiling water.
Price..... **50**c. each.
Milk Hydrometer, No. 2080..... **46**c.
Milk Hydrometer, No. 2085 (Quevenne)..... **75**c.
Add 5c. each, if by mail, for postage.

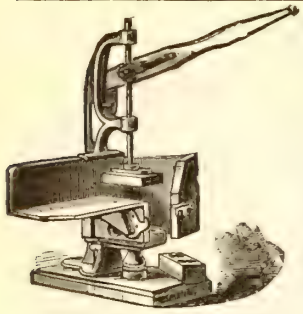
BUTTON THERMOMETER.

HOW'S THE WEATHER?

A NOVELTY.

No. 1435.—Round celluloid scale; ⅞-inch diameter; coiled tube, with pin for attaching to coat lapel. Very handy and attractive.
Price..... **25**c.

THE DAIRY
CONTINUED.



Reid's Self-Gauging Butter Printer.

Prints butter very neatly and quickly. Weighs into pounds or half pounds, as desired. Does it in one-quarter the time it can be done by hand, making prints of uniform weight. Moulds are square.

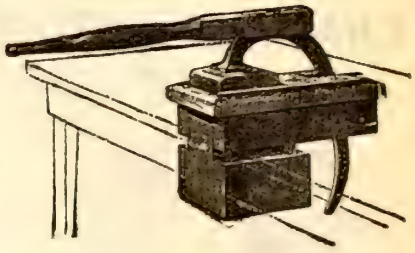
PRICE.

Either pound or half-pound.....**$10.00**
Both pound and half-pound combined..... **13.50**
Extra for initials and monograms..... **1.50**

Lafayette Butter Printer.

This is also self-gauging. Intended for use in creameries, but more especially for re-printing. Very simple and handy.

Either pound or half-pound with table, **$15.00.**
Either pound or half-pound, without table, **$10.00.**



BUTTER MOULDS.

These moulds are hand-carved by first-class workmen, and the designs are new and pretty. Only the best selected maple is used for these moulds, and they are perfectly seasoned, hence do not warp out of shape—a great objection against other moulds on the market.

BRICK BUTTER MOULD.

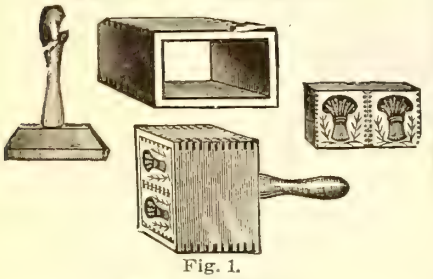


Fig. 1.
Seeley Pattern.

Furnished with sheaf of wheat. Movable block, ½ pounds.

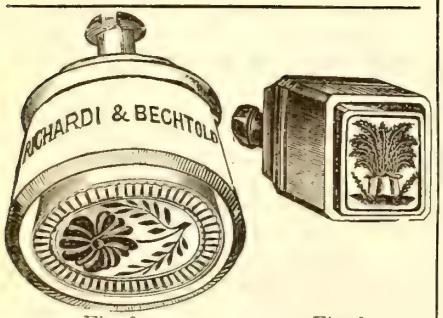


Fig. 2. Fig. 3.

EXTRA HEAVY BRICK BUTTER MOULD.
Philadelphia Pattern.

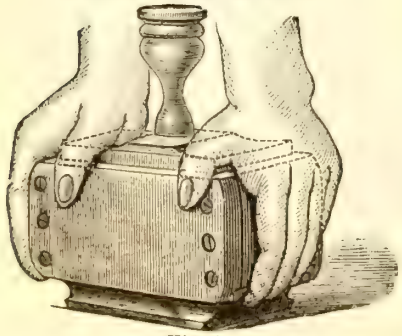


Fig. 4.
(This shows the way this mould is used.)

Prices Moulds, Prints, Etc.

Fig. 1—Seeley Pattern, ½ lbs.....**$0.60**
Fig. 2—R. & B. ½ lbs., round..... **.25**
Fig. 2—R. & B. 1 lbs., round..... **.30**
Fig. 3—R. & B. ½ lbs., square..... **.30**
Fig. 3—R. & B. 1 lbs., square..... **.35**
Fig. 4—Philadelphia Pattern, ½ lbs.. **1.00**
Fig. 4—Philadelphia Pattern, 1 lbs.. **1.50**
Fig. 5—Round Prints, ½ lbs..... **.10**
Fig. 5—Round Prints, ¼ lbs..... **.10**

INDIVIDUAL BUTTERS.

Square, ½ ounce..... **15c.**
Square, 1 ounce..... **15c.**
Round, 1 ounce..... **10c.**

Can furnish square moulds to order with initials cut at an extra cost of $1.00.

LADLES AND SPADES.

Fig. 6.—No. 1 spades, 3½x12 inches....**10c.**
Same, 4x12 inches.....**10c.**
Fig. 7.—Factory size, 16x7½ inches....**40c.**

PYRAMIDAL MILK STRAINER.

Fig. 8. Extra heavy, retinned.
Will Not Clog.
Has Large Straining Surface.

Finer cloth can be used than on a flat strainer. In the use of the latter the sediment would be drawn onto the strainer and clog it, while with the pyramidal shape the milk falls on the point of the strainer and the sediment is washed off and settles at the base, leaving a clean surface through which the milk passes rapidly.

Fig. 8—Pyramidal Strainer, with rest..**$1.25**
Same, without rest..... **1.10**

THE CHAPMAN PATENT CHANGEABLE STRAINER.

Fig. 9. A 80-Sieve. C 40-Sieve. B Fastener.
Model No. 2.
With Cheesecloth Attached.

For the use of small dairies or for household purposes, for which a medium-sized strainer is used; such as fruit, paint, vinegar, lard, etc.

Model No. 3 (See Cut).
With Cheesecloth Attachment.

Especially adapted to the use of large top straight cans. The shape of No. 3 is such that it can be used on any sized can, either small or large top.

Fig. 9.—Chapman, Model No. 2.....**$0.75**
Same, Model No. 3..... **1.00**

POLISHED MAPLE BOWLS.

Fig. 10.—Bowls, 15 inches..... **25c.**
Fig. 10.—Bowls, 17 inches..... **40c.**
Fig. 10.—Bowls, 19 inches..... **60c.**

BUTTER PRINTS.

Common hard-wood Prints, hand carved, assorted designs; sizes, 4 and 4½ inches; ½ and ¼ pound.
Each..... **10c.**

PLAIN BUTTER SPADES.
Hard Maple.
(Packed in Barrels.)

Fig. 6.
No. 1.—Size, 3½x12.

FACTORY DAIRY LADLE.
Hard Maple.

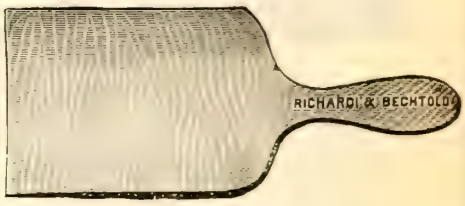


Fig. 7.
Size, 16x7½ inches.

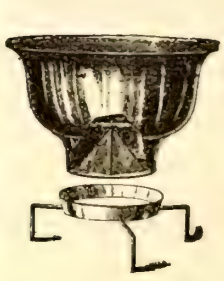
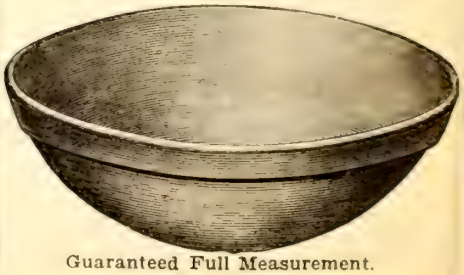


Fig. 8. Fig. 9.

POLISHED MAPLE BOWLS.
Fig. 10.



Guaranteed Full Measurement.

THE DAIRY
CONTINUED.

Common Sense Calf Feeder.

THE underlying principle of the Calf Feeder is: The calf by sucking its milk takes its slowly and mixes the saliva of the mouth with the milk, which makes it spongy instead of a solid indigestible lump formed when the milk is gulped down from a bucket. This is the greatest cause of scours.

We have both a single and double feeder. One calf can use the double feeder, as each part works independently of the other.

As it really has merit, we have contracted for a supply of them. It was awarded gold medal at the Pan-American Exposition. Over 50,000 in use. Adopted by experimental farms. Extra gain—one calf in eight weeks. Pays for two feeders.

Single Feeder (2 nipples).....$1.50
Double Feeder..... 2.00

COWS' RELIEF.—Cures caked bags, heals sore teats, cures spider in the teat. The original.

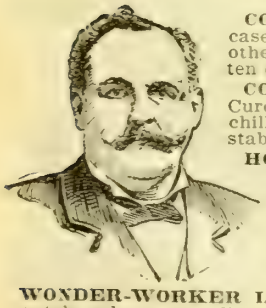
CALVES' CORDIAL.—Cures scours in cows and calves in one day.

ARABIAN SCRATCHES AND GALL CURE is without an equal. It cures every horse every time.

President Marston, of the Michigan Experimental Farms, says: "I have used all the above and have placed my order for more. **I have tried every Calf Feeder, but like yours the best."**

Single Calf Feeder (2 nipples).....$1.50
Double or Twin Feeder..... 2.00
Calf Nipples and Long Tubing, each..... .15
Cows' Relief—¼-pound box..... .50
Cows' Relief—1¼-pound box..... 1.00
Calves' Cordial..... .50
Arabian Scratches and Gall Cure—3 ounces..... .25
Arabian Scratches and Gall Cure—9 ounces..... .50

Veterinary Remedies.
DR. A. C. DANIELS.



COLIC CURE.—Never fails to cure any case of colic. Cheaper and surer than any other remedy. One package cures five to ten cases.....$1.00

COUGH, COLD AND FEVER DROPS.—Cures lung fever, epizootic, coughs, colds, chills, etc. In use in more than 100,000 stables in the United States.....50c.

HORSE RENOVATOR.—Cures indigestion, bad blood, loss of appetite, **kidney disease,** etc. Makes your horse look and feel "as fine as silk." Makes cows give milk. Cures hog cholera. One package will often make your horse gain from 25 to 50 pounds in weight..... 50c.

WONDER-WORKER LINIMENT. — Heals cuts, wounds, scratches, harness galls and barbed wire cuts.....25c.

OSTER-COCUS (Nerve and Muscle Liniment).—Oil, cures all soreness of cords or muscles, sprains, sore throat, lumbago, rheumatism, neuralgia, weak joints, chilblains, stings of poisonous insects and all inflammation.....25c. and 50c.

HOOF GROWER AND SOFTENER.—Sure cure for contracted feet, quarter cracks, chilliness and tenderness. Makes soaking and packing unnecessary.....50c.

GALL-CURA.—Heals harness galls and scratches, and **work the horse every day.** Acts on blood as a medicine.....25c.

OTHER REMEDIES can be obtained of us, such as **Worm Killer,** Veterinary Carbo-Negus; this latter remedy prevents the spread of tuberculosis, pleuro-pneumonia, etc.; and our remedy for mange. With every $20 order a cabinet will be given.

SO-BOS-SO.
(KILFLY.)

SO-BOS-SO (Kilfly) is a liquid mixture designed to protect cows and horses from torture of flies. The preparation is positively harmless. It is used with splendid results as a disinfectant and germicide. If your animals are troubled with lice, use So-bos-so (Kilfly). Spray your poultry house with So-bos-so (Kilfly). It kills lice, or any vermin that may infect the fowls. Put up in one-gallon cans. Price.....75c. per gallon.

ELECTRIC SPRAYER.—Price.....50c

COW-EASE
IS GUARANTEED TO
KEEP THE FLIES OFF.

A preparation to prevent the dreaded fly pest on horses and cattle. It is a clean, clear, non-penetrating liquid, does not gum up the hair or blister the skin. It contains nothing injurious and is absolutely harmless.

Cow-Ease Will Kill All Lice and Vermin.

WHEN TO APPLY COW-EASE.

The Best Time.—For cows, before milking in the morning. For horses, before driving. In very sultry weather it should be applied every day.

Any of our Atomizers described on page 73 will apply Cow-Ease very nicely and economically.

Our Special Price,
Per gallon..... 75c.

THE WAY TO PUT IT ON

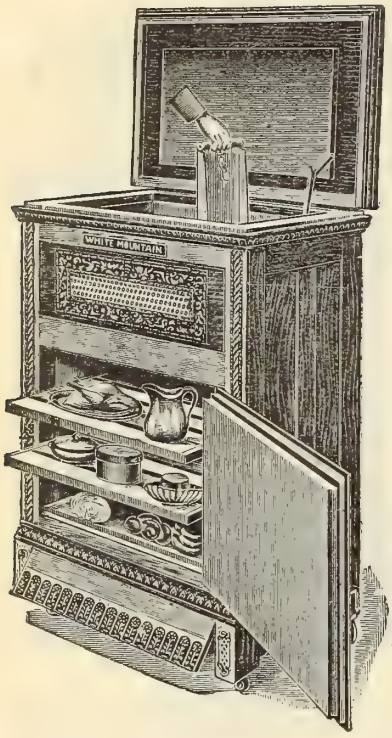
If it is used as directed. It does not gum the hair or blister the skin. If your dealer does not have it we will send a gallon can, prepaid, for one dollar.

Trapp's Patent Cow Tail Holder.

If you wish to make it pleasant in milking, you should use **Trapp's Patent Cow-Tail Holder.** Does not irritate or make a cow kick. Easily and quickly operated. Holds the tail firmly.

Retail price.....15c. Two for.....25c.

"WHITE MOUNTAIN" REFRIGERATORS



They are sanitary Refrigerators. They have positive dryness. They have the best and latest scientific method of cold dry air circulation. They are more attractively and artistically decorated than any other refrigerator. They are economical in the use of ice. They preserve food perfectly. The insides of our Refrigerators are entirely lined with metal. No wood is exposed to get damp and soggy. Our Patent Trap positively prevents all odor from the overflow from working back into the ice chamber. They have heavy and thick walls with dead air space, which, with our high-grade charcoal sheathing, makes a thoroughly insulated wall, through which it is impossible for warm air to penetrate. Our Refrigerators are all furnished with galvanized steel shelves, which allow a current of cold, dry air to pass in and out among the dishes. Send for Special Refrigerator Catalogue.

There is now a large demand for refrigerators fitted with porcelain-lined water coolers, and we are prepared to furnish any refrigerator which we manufacture, made in this way, at an advance in list price of **$6.50**. Retail, **$3.90.**

White Mountain Hardwood Refrigerator.

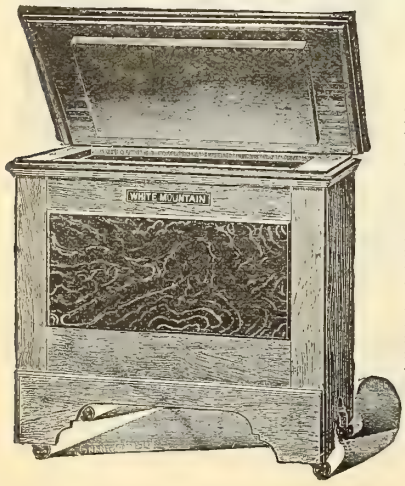
The illustration above shows our single door "White Mountain" Refrigerator made from hardwood and finished in our beautiful "golden oak." They are trimmed with a lever surface lock of strong and handsome design and with hinges of a pattern to correspond. Heavy air-tight walls, thoroughly insulated, swing base, sliding shelves of galvanized steel.

No.	Lbs. Ice.	Length.	Depth.	Height.	Factory List Price.	Retail Price.
112	45	26 inch.	19 inch.	40 inch.	**$18.75**	**$10.25**
113	80	30 inch.	20 inch.	43 inch.	**23.00**	**12.50**
114	100	33 inch.	21 inch.	45 inch.	**26.00**	**14.10**

White Mountain Pine Refrigerator.

These are made from the best quality of well-seasoned pine lumber, handsomely finished in the new and beautiful "flaked golden oak."

No.	Lbs. Ice.	Length.	Depth.	Height.	Factory List Price.	Retail Price.
101	30	24 inch.	18 inch.	38 inch.	**$13.75**	**$ 7.50**
102	45	26 inch.	19 inch.	40 inch.	**15.75**	**8.55**
103	80	30 inch.	20 inch.	43 inch.	**19.25**	**10.50**



White Mountain Ice Chests.

They have thick, heavy walls, thoroughly insulated; galvanized steel shelves and ice racks, and are mounted on casters that will not drop out.

	Length.	Depth.
No. 2½....	27 in.	20 in.
No. 3.....	29 in.	21 in.
No. 4.....	31 in.	22 in.
No. 6.....	35 in.	23 in.

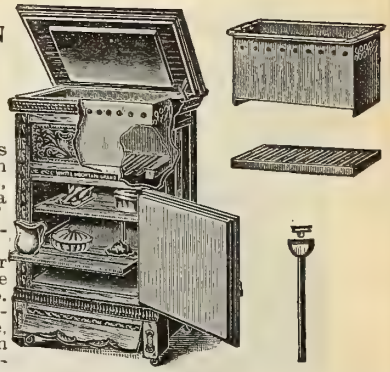
	Height.
No. 2½.....	27 in.
No. 3.....	29 in.
No. 4.....	31 in.
No. 6.....	33 in.

No.	Factory List Price.	Retail Price.
2½	**$9.25**	**$5.00**
3	**12.00**	**6.50**
4	**14.50**	**7.80**
6	**17.25**	**9.30**

STYLE OF

WHITE MOUNTAIN GRAND REFRIGERATOR.

Nos. 203 and 204.



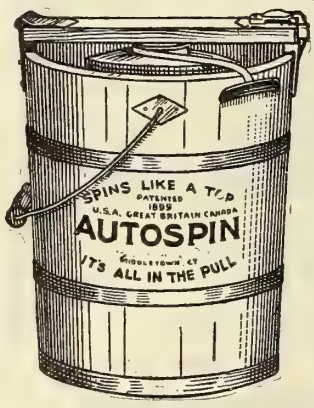
This illustration shows perfect ease with which the ice chamber shelves, waste pipe and grate in a "White Mountain Grand" Refrigerator may be removed for cleaning.

You will note that our patent "Maine" ice grate takes out through the top. The basket is entirely independent from this grate, resting on same when in place, but taken out separately. A new and interesting feature of this Refrigerator is the fact that the shelves slide back and forth, so that an article at the back of the Refrigerator is easily obtained without reaching in for it.

No.	Lbs. Ice.	Length.	Depth.	Height.	Factory List Price.	Retail Price.
203	80	30 inch.	21 inch.	44 inch.	**$28.75**	**$15.60**
204	100	33 inch.	22 inch.	46 inch.	**32.25**	**17.55**

AUTOSPIN FREEZER.

A REVOLUTION IN ICE CREAM FREEZING.



The Autospin is made to spin like a top, because frozen liquids float, and because floating things go to the centre of a whirlpool.

In the old-style freezing machines, the cream in the centre is the last to be frozen; but the Autospin, from the start, whirls the nearly frozen cream into the centre, and as fast as Nature throws off the heat accumulates it there, until the can is reached. At this point the resistance of the ice cream that now becomes frozen to the can, to the escape of heat from the centre, first affects the Autospin, but the cream is already at the freezing point clear to the centre. Hence this law cannot greatly delay solidification.

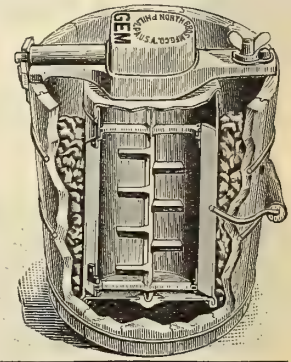
The can holding the cream is inside a perforated cage, which comes next to the ice, and through the perforations the brine comes in contact with the can holding the cream and no matter how solid the cream becomes the revolving can works with perfect freedom. It is no harder to work when cream is solidified than when in a liquid state.

	List.	Retail.		List.	Retail.
2-quart.....	**$2.35**	**$1.90**	5-quart.....	**$3.35**	**$2.75**
3-quart.....	**2.70**	**2.25**	6-quart.....	**3.65**	**3.00**
4-quart.....	**3.00**	**2.45**	7-quart.....	**4.00**	**3.25**

THE GEM FREEZER.

We are also prepared to furnish Gem and Blizzard Freezers at the following prices:

1-quart...**$1.60**	4-quart...**$2.75**
2-quart... **1.85**	6-quart... **3.25**
3-quart... **2.25**	8-quart... **4.25**



THE BLIZZARD FREEZER.

This is pre-eminently the best low-priced Freezer on the market. Easy running; economical and convenient in use. Single action. Dasher is same as in **GEM**, and has **Automatic Twin Scrapers.**

1-quart...**$1.50**	4-quart...**$2.50**
2-quart... **1.75**	6-quart... **3.00**
3-quart... **2.00**	

ICE CHIPPER.

JUST THE THING TO USE WITH AUTOSPIN FREEZER.

Takes the place of the old-time bag and hatchet; quickly reduces the ice to uniformly small pieces, about the size of peanuts. Ice chipped in such pieces, cream can be frozen more rapidly and smoothly because it packs more solidly around can. Price, **50c.**

REVOLVING KRAUT CUTTER.

No. 13.

The disc wheel, 20 inches diameter, 2 adjustable steel knives. Face of wheel is smooth. Strong shaft; good iron boxes. Rest of machine hard wood. Will do fast work. Wheel with rough face can be furnished for a little less money. Price, **$8.**

Special Discount for Cash

Can furnish with 3 knives if desired.

THE BANNER ROOT CUTTER.

Built in Three Sizes for Both Hand and Power.

No. 20.

Simple in construction. Easy to operate. Has a self-feeder. Separates dirt from cut feed. Cuts with a clean cut. Does not crush, grind or tear the feed.

THE NO. 20—FOR HAND USE.

Has a capacity of 30 to 50 bushels per hour.

Retail price..... **$9.00.** **Special Discount for Cash.**

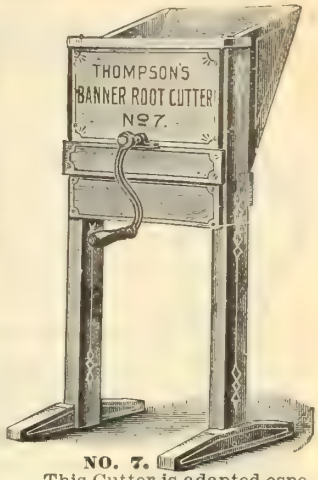
We will have on market Crank Cutter, built with balance wheel, same to be of large capacity, on which we can make very low prices.

THE NO. 16—SMALL POWER CUTTER.
With Fly Wheel and Band Wheel.

Supplied with crank also for hand use. Capacity by hand, 30 to 50 bushels per hour. Capacity by power, 2 to 3 bushels per minute. Our Retail Price....**$13.00**

Special Discount for Cash.

THE BANNER ROOT CUTTERS.

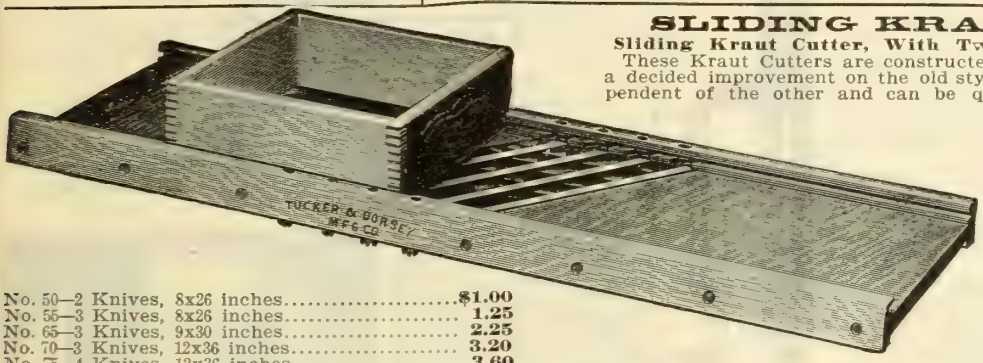


NO. 7.

This Cutter is adapted especially for poultry men and farmers or for suburban residents keeping a couple of cows. Cuts roots and vegetables into fine chicken feed. Capacity, one bushel in about five minutes. Price, **$5.00.**

SLIDING KRAUT CUTTER.

Sliding Kraut Cutter, With Two, Three, or Four Knives.



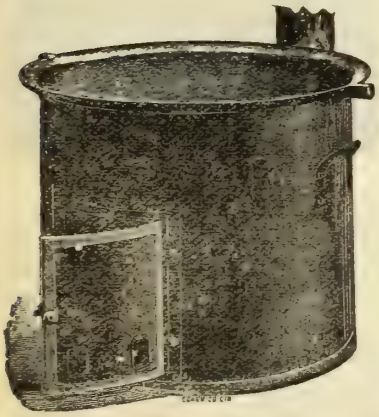
These Kraut Cutters are constructed on the same principle, but are a decided improvement on the old style machines. Each knife is independent of the other and can be quickly adjusted to cut fine or coarse at will.

In the old-style kraut cutters the knives could rarely be adjusted just right, and if they were they probably refused to stay. These Cutters are made of heavy hardwood and are fitted with a hardwood box which runs in grooves. Knife adjustment is perfect, being controlled with ¼-inch round-head stove bolts.

No. 50—2 Knives, 8x26 inches.....**$1.00**
No. 55—3 Knives, 8x26 inches..... **1.25**
No. 65—3 Knives, 9x30 inches..... **2.25**
No. 70—3 Knives, 12x36 inches..... **3.20**
No. 75—4 Knives, 12x36 inches..... **3.60**

G. & T.

BOILER AND FEED COOKER



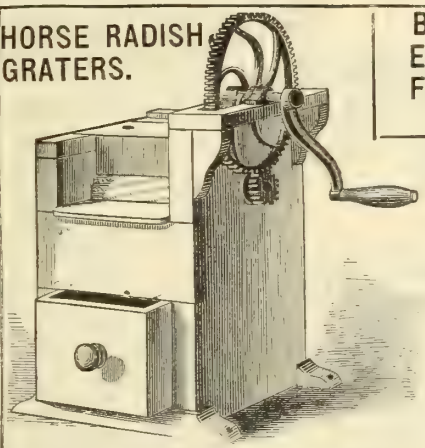
Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on. Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside this, retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified.

Actual Capacity.	Diameter of Furnace.	Shipping Weight.	List Price, Furnace with Kettle.	Ret'l Price, Furnace with Kettle.	List Price, Kettle only.	Ret'l Price, Kettle only.
30 gallons.	26 inches.	150 pounds.	**$13.00**	**$9.75**	**$5.25**	**$3.95**
33 gallons.	28½ inches.	175 pounds.	**14.00**	**10.50**	**6.00**	**4.50**
48 gallons.	31½ inches.	200 pounds.	**16.50**	**12.40**	**7.50**	**5.65**
53 gallons.	32 inches.	225 pounds.	**18.00**	**13.50**	**8.00**	**6.00**
75 gallons.	36 inches.	275 pounds.	**24.00**	**18.00**	**12.00**	**9.00**

Furnace with Fire Pot for Coal, add to list—List price.....**$4.50** Retail..... **$3.25**

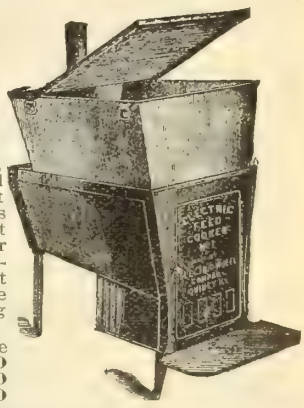
You will notice that our kettles are rated at exact capacity.

HORSE RADISH GRATERS.



With tin clad cylinder for Horse Radish.
List price.....**$7.00** Retail.....**$6.25**
With steel pin cylinder for Horse Radish.
List price.....**$8.00** Retail.....**$7.25**
With steel pin cylinder for Cocoanut.
List price.....**$9.00** Retail.....**$8.00**
With steel pin cylinder for Horse Radish, with legs, balance wheel, treadle and crank.
List price.....**$14.00** Retail.....**$12.50**

BALTIMORE ELECTRIC FEED COOKER.



Furnace door, frame, hearth and grates are of best cast iron; linings and sides of sheet steel plates; boiler is made of galvanized steel; will not rust; can also be used for scalding hogs.

No.	Gallons	Price
1	25	**$12.50**
1	40	**15.00**
1	50	**17.00**

BALTIMORE

RELIABLE FEED COOKER

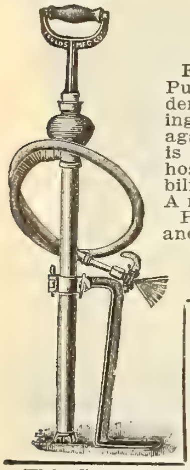
AND WATER HEATER COMBINED.

20-gallon size, made to burn wood only; 35 sizes made to burn coal or wood. Boiler made of No. 14 heavy galvanized steel. Furnace complete consists of door frame, grate, plate, hearth and legs. Legs are cast separately, so they can be packed as to insure safe delivery.

No. 0—20 gallons, length 24 inches, weight 60 pounds. Price.....**$6.50**

No. 1—35 gallons, length 30 inches, weight 110 pounds. Price.....**$10.50**

SPRAY PUMPS, Etc.
CONTINUED.



Brass Bucket Pumps.

Fig. 1129.—"Bordeaux" Brass Garden and Spray Pump is especially designed for spraying in gardens and greenhouses. The pump is double-acting in effect, has gutta-percha ball valves, proof against the action of acids and oils. Foot piece is malleable iron. The pump end of discharge hose is wire wound, adding largely to its durability. "Seneca" nozzle is furnished with pump. A most excellent pump for whitewashing.

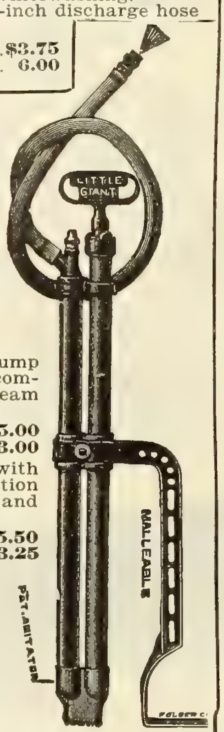
Price, with three feet of ⅜-inch discharge hose and spray nozzle:

Retail price.............. $3.75
List price................. 6.00

Little Giant Brass Spray Pump and Fire Extinguisher.

WITH AGITATOR.

Fig. 639.



This Spray Pump is constructed entirely of brass. It is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up.

PRICE LIST OF PUMPS SHOWN.

No. 327½, Fig. 639.—Bucket Brass Spray Pump with Agitator, complete with hose and combination fine, coarse spray and solid stream nozzle.

List price.................................... $5.00
Retail price.................................. 3.00

No. 328, Fig. 639.—Bucket Brass Spray Pump with Agitator, complete with hose and combination fine, coarse spray and solid stream nozzle and an eight-foot pipe extension.

List price.................................... $5.50
Retail price.................................. 3.25

Spray Pump Extras.

Order By Figure.

Fig. 48.—Bamboo Extension Rods, have eight-foot iron or brass pipe inside of bamboo and arranged with brass stop cock cut ¼ inch, female thread adapted for attaching to hose by either Figs. 65 or 67 attachments.

Fig. 48.—As above, lined with iron pipe.......................... $2.50
Fig. 48.—As above, lined with brass pipe.......................... 5.00
Fig. 1339.—Iron pipe, complete, with cock.......................... 1.00
Fig. 1339.—Brass pipe, complete, with cock.......................... 3.25
Fig. 65.—To make connection between ½ or ¾-inch hose, coupling and spray nozzle or pipe extension.............. .25
Fig. 67.—Has one male end to wire into ½ or ⅜-inch hose, other end cut ¼-inch male pipe thread, to attach to spray nozzle or pipe extension.............. .25
Fig. 85.—Brass stop cock shank for wiring ½-inch hose, other end ¼-inch male thread.............. .65
Fig. 54.—Brass stop cock, cut ¼-inch female pipe thread both ends.............. .65

BRASS HOSE COUPLINGS (Fig. 504).

Size, inches..........	⅜	½	¾	1	1½	2
Price, each..........	25c.	25c.	25c.	35c.	$1.00	$2.00

RUBBER SPRAY HOSE (See also page 57). Per Foot.

⅜-inch..............................	8c.
½-inch, XX..............................	10c.
½-inch, Spray No. 1..............................	12c.
½-inch, Spray No. 2..............................	15c.
1 -inch, Baltimore..............................	20c.
¾-inch, Trix..............................	8c.
¾-inch, Oriole..............................	10c.
¾-inch, G. & T. Extra..............................	12c.
¾-inch, Crest..............................	15c.
¾-inch, Griffith..............................	16c.

FUNNEL AND STRAINER (Fig. 1273).

Tin, with tin twenty-mesh wire strainer.............................. $1.25
Tin, with brass twenty-mesh wire strainer.............................. 1.75
Copper, with brass twenty-mesh wire strainer.............................. 2.50

SHERMAN HOSE CLAMPS (Fig. 1272).

A screwdriver does the business.

Size, inches........	½	¾	1	1¼	1½	2	2½
Price, each.........	5c.	5c.	10c.	15c.	20c.	25c.	30c.

Fig. 70.—Brass Suction Pipe Strainer is fitted for hose as follows:

Size, inches..............................	¾	1	1¼
Price, each..............................	40c.	40c.	75c.

Fig. 71.—Brass Suction Pipe Strainer is fitted for wrought iron pipe as follows:

Price, 1 inch, each.............................. 40c.

Brass Barrel Spray

Fig. 766.

Cylinder Valves, Valve Seats and Discharge.

ALL BRASS.

All working parts submerged in liquid to be sprayed, hence no priming is necessary. Patent Agitator. No complicated parts. Throws constant spray.

No. 305.—Complete with five feet of hose and agitator.

List price.............................. $10.00
Retail price.............................. 7.00

No. 306, Fig. 766.—Complete with two leads of hose of ½-inch three-ply, each five feet long and two Myers' Vermorel Nozzles and Agitator.

List price.............................. $12.00
Retail price.............................. 8.00

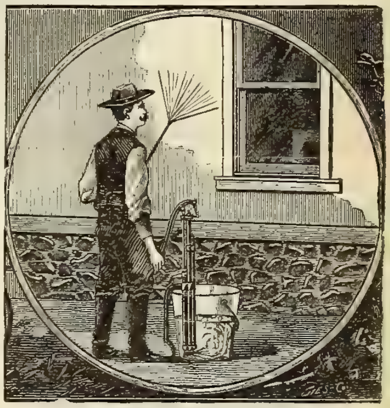
Bordeaux Nozzles instead of Vermorel furnished when wanted.

Installed in barrel at **$1.75** extra.

Lever Bucket Spray Pumps.

Fig. 632.

FOR WHITEWASHING AND PAINTING.
Always Use Bordeaux Nozzles For This Work.
ONE AND ONE-QUARTER-INCH CYLINDER.
Notice the Lever and Patent Agitator.
Observe Their Advantages.
Can Be Used in Bucket or Can Be Attached to Top of Barrel.



More surface can be covered in a given time than five men with brushes, and do much better work, especially on rough surfaces, as the force with which the material is applied causes it to penetrate the small crevices or openings, making it a perfect and complete job. Care must be taken in mixing the material, as lime settles very quickly.

The lime must be thoroughly slaked and **carefully strained** through **burlap** into the vessel from which it is pumped; it also must be thoroughly and frequently stirred. It is necessary, when you cease spraying for a short time, to clean the pump thoroughly on the inside with water, so as to remove all lime to prevent clogging.

OUR BRASS BUCKET LEVER SPRAY PUMP.

Shown has all the advantages of the ordinary barrel pump and bucket pump combined. The work is all done on the down stroke of the handle, and can be operated with one-third the power required for any other old style of bucket spray pump. This is especially true in whitewashing, as more power is required in this than in any other mixture. When used as a barrel pump, detach the footrest and attach pump to top of barrel.

OUR COLD WATER PAINT can be applied very rapidly and economically with these pumps. These pumps can be used for spraying insecticides, as well as whitewashing.

FIGURE 632.

No. 324.—Lever Bucket Spray Pump, with agitator, complete, with hose and nozzle.

Factory list price.............................. $6.00
Our Special Price.............................. 4.00

No. 324A.—Lever Bucket Spray Pump, with agitator, complete, with hose, nozzle and eight-foot pipe extension.

Factory list price.............................. $6.50
Our Special Price.............................. 4.35

If wanted for whitewashing or painting, so state in order, and Bordeaux nozzle will be sent.

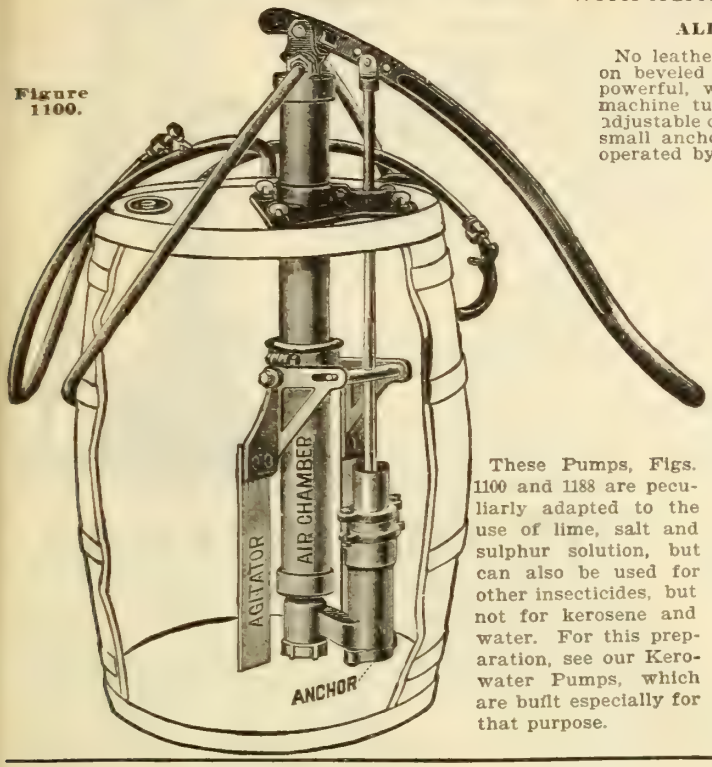
Installed in barrel.............................. **$1.75** extra.

SPRAY PUMPS, Etc.

"POMONA" SPRAY PUMP

WITH AGITATOR.

Figure 1100.



ALL WORKING PARTS OF BRASS. Figure 1100.

No leather packing. Valves are brass; easily accessible; wing guided on beveled seats, ground to fit. Air chamber steel. Lever long and powerful, with adjustable stroke, 3, 4 or 5-inch. Solid brass plunger, machine turned, fitting gland accurately. Pump is held securely by adjustable clamp plate, made to fit either end or side of barrel, and by a small anchor located at bottom of barrel. The mechanical agitator is operated by stroke of the handle. Directions sent with each pump.

These Pumps, Figs. 1100 and 1188 are peculiarly adapted to the use of lime, salt and sulphur solution, but can also be used for other insecticides, but not for kerosene and water. For this preparation, see our Kero-water Pumps, which are built especially for that purpose.

Figure 1100. SIZES, PRICES, ETC.

We mount the "Pomona" Spray Pump in barrel, ready for use, at an additional net cost of $1.75.
Hose can be furnished in any length and any number of leads, double nozzles, extensions, etc., over and above that given in the outfits at small extra cost. Special discount for cash from these prices.

	Plunger.			Retail Price.	List Price.
	Dia.	Stroke.	D'ble Dis.		
Pump Only. With Agitator.	2½ in.	3, 4 or 5 in. Adjustable.	½ in. hose. ¾ in. pipe.	$13.50	$15.00
Outfit A for Single Lead.	Fig. 1100. Spray Pump with one lead 10 ft., ½ in. discharge hose with "Seneca" (or Vermorel) Spray Nozzle. Without barrel. Barrel extra.			16.25 1.75	18.00
Outfit B for Double Lead.	Fig. 1100. Spray Pump with two leads 10 ft. each, ½ in. discharge hose with "Seneca" (or Vermorel) Spray Nozzle. Without barrel. Barrel extra.			18.50 1.75	20.50

Gould's "Fruitall" Spray Pump

WITH AGITATOR. ALL WORKING PARTS BRASS.

FIGURE 1188.—"Fruitall" Spray Pump is made on the same general lines as our now famous "Pomona." It is, however, lighter and of smaller capacity. All working parts, including plunger, gland, valves, valve seats and strainer, are of brass. Regularly fitted with wing agitator similar to one used on "Pomona," and which has proven to be the best type. Pump is held in barrel by anchor at bottom and adjustable clamp at top, fiting over end of stave. Not made for side of barrel. The agitator, although differing from the "Pomona," is a perfect working device and answers every purpose for anyone desiring a lighter and cheaper pump.

Figure 1188.—PUMP, EQUIPMENT, ETC.

	Plunger.			List Price.	Retail Price.
	Dia.	Stroke.	Discharge.		
Pump with Agitator and Hose Coupling.	2 in.	4 in.	½ in. hose.	$10.00	$9.00
Outfit A, with One Lead of Hose and Nozzle.	Fig. 1188. Spray Pump with Agitator and one lead 10 feet, ½ inch discharge hose, with "Seneca" (or Vermorel) Spray Nozzle. Bbl. extra.			13.00	11.75 1.75
Outfit B, with Two Leads of Hose and Nozzles.	Fig. 1188. Spray Pump with Agitator and two leads 10 feet each, ½ inch discharge hose, with "Seneca" (orVermorel) Spray Nozzles. Barrel extra.			15.50	14.00 1.75

THIS PUMP IS ALSO ADAPTED TO THE USE OF LIME, SULPHUR AND SALT SOLUTION.

For Directions To Make, See Page 73.

For extra hose, nozzles, extensions, etc., see pages 57, 70 and 75.

Special Discount for Cash.

SPRAY PUMPS, Etc.

Goulds "Sentinel, Jr." Double Acting Spray Pump

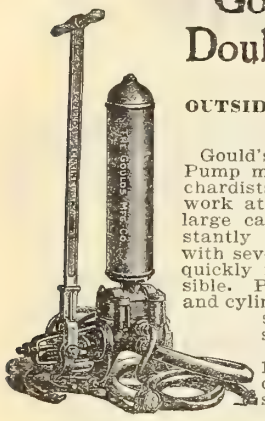


Fig. 1316.

OUTSIDE GUIDED ROD.
BRASS WORKING PARTS.

Gould's "Sentinel Jr." Double-Acting Spray Pump meets the requirements of the best orchardists and orange growers desiring quick work at high pressure. Notwithstanding its large capacity, one man can operate it constantly against heavy pressure. Often used with several leads of hose. Piston is easily and quickly repacked and all valves easily accessible. Piston, piston-rod, valves, valve seats and cylinder lining are brass. Piston-rod is outside-guided, so that it runs perfectly straight.

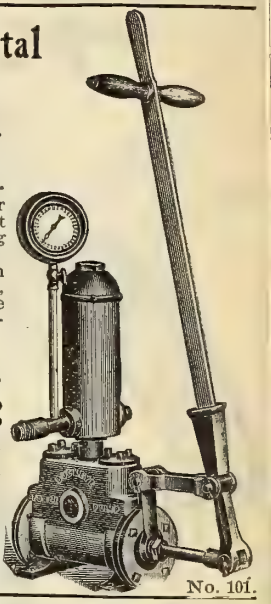
Pump ordered without hose has one 1-inch suction and two ½-inch discharge brass hose couplings, also brass strainer.

Air chamber, 6x30 inches.

	Dia. Cyl.	Suction.	Double Discharge.	Fact'ry List Price.	Our Retail Price.
Pump with Strainer and Hose Couplings.	2½ in.	1 in. hose.	½ in. hose.	**$25.00**	**$22.50**
Outfit A	**Fig. 1316** with 5 feet 1 inch rubber suction hose and strainer and one 25 foot lead of ½ inch discharge hose with one "Seneca" (or other) Spray Nozzle.			**32.75**	**30.00**
Outfit B	**Fig. 1316** with 5 feet 1 inch rubber section hose and strainer and two 25 foot lengths of ½ inch discharge hose each with one "Seneca" (or other) Spray Nozzle.			**38.25**	**34.50**
Outfit C	**Fig. 1316** with 5 feet 1 inch rubber suction hose and strainer and four 25 foot lengths of ½ inch discharge hose each with one "Seneca" (or other) Spray Nozzle.			**50.25**	**45.00**

Hose can be furnished in any length and any number of leads, Double Nozzles, Extensions, etc.

Baltimore Horizontal Force Pump.



FOR SPRAYING PURPOSES.
Brass Lined Cylinder.
Brass Plunger Rod.
Brass Valve Seats.

A powerful spray pump, designed for heavy, continuous work, where great pressure is required, as in spraying tall trees.

All working parts are of brass, which is unaffected by any spraying liquid, and the pump is fitted with extra large air chamber and pressure gauge registering up to 200 pounds.

PRICE LIST.

No. 101 Pump, without hose or nozzles, as illustrated.
List price.....**$25.00**
Retail price.....**20.00**

Outfit A.—Five feet 1-inch rubber suction hose and one 25-foot lead of ½-inch discharge hose, with Seneca or other spray nozzle.
List price, **$32.75** Retail price, **$26.50**

Outfit B.—Five feet of 1-inch rubber suction hose, and two 25-foot leads of ½-inch rubber discharge hose, each with Seneca or other spray nozzle.
List price, **$38.25** Retail price, **$31.00**

No. 101.

THE AUTO-SPRAY.

A Self-Operating or Automatic Sprayer.

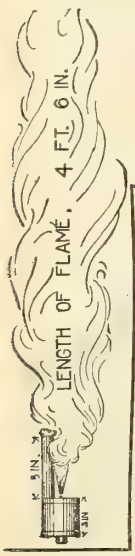
WHAT THE AUTO-SPRAY WILL DO.

A few strokes of plunger in air-chamber will compress enough air to discharge the entire contents and make a continuous spray for nine minutes. This means that the "Auto-Spray" can be charged in fifteen seconds, when it will work uninterruptedly long enough to spray a quarter-acre of potatoes. The spray can be made to flow fast or slow by merely turning the cock of the nozzle, and it will throw either a cloudlike shower or a solid stream.

PRICES.

"Auto-Spray," No. 1, brass tank, without "Auto-Pop"	**$6.00**
"Auto-Spray," No. 1, brass tank, with "Auto-Pop" (recommended)	**7.00**
"Auto-Spray," No. 1, galvanized tank, without "Auto-Pop"	**4.50**
"Auto-Spray," No. 1, galvanized tank, with "Auto-Pop"	**5.50**
"Auto-Pop," supplied separately	**1.25**
Copper strainer	**1.25**
Extension pipe, brass, two-foot length	**.35**
Elbow extension, brass	**.35**
Torch	**1.00**
Safety valve, solid brass	**.25**
Bicycle pump fitting	**.25**

Special Prices for Cash.



"The Auto-Spray Torch."

It is marvelously effective in burning worms and nests and is the only torch that has ever been used successfully. The "Auto-Spray Torch" burns kerosene oil vaporized with oxygen of the air, and is so intensely hot that a single blast is sufficient to destroy a nest of worms....**$1.00**

The "Auto-Pop" and "Anti-Choke" Nozzle.

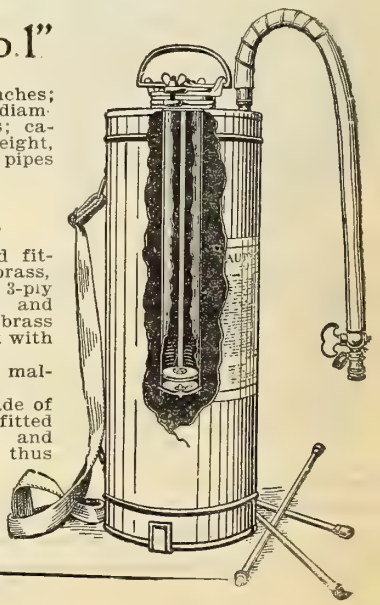
The "Auto-Pop" is an automatic valve which is closed by the air pressure used to operate the "Auto-Spray."

In operation a lever is moved by simply closing the hand, thus opening the valve and allowing an instantaneous discharge of spray.

By releasing the lever it closes itself automatically, hence the spray is in perfect control.

The value of the "Auto-Pop" is most apparent in spraying potatoes, tobacco, cotton, small fruits, etc., where only enough solution is used to spray each plant or vine.....**$1.25.**

"Auto-Spray No. 1"



Length of cylinder, 21 inches; weight, loaded, 39 pounds; diameter of cylinder, 7 inches; capacity, about 4 gallons; weight, empty, 7 pounds; extension pipes extra.

SPECIFICATIONS

"Auto-Spray No. 1"

Has nozzle, stop-cock and fittings turned from solid brass, with deep-cut threads, 3-ply rubber hose; the pump and valves are entirely of brass where they come in contact with the solution.

All cast-iron parts are malleable iron.

The carrying strap is made of 8-ply halter web. It is fitted with our improved valve and take-out and put-in sleeve, thus preventing damage or accident to the plunger and packing. In the brass machine there is absolutely nothing that can corrode or rust.

For Prices on Rubber Hose, See Pages 57, 70 and 75.

SPRAY PUMPS, Etc.

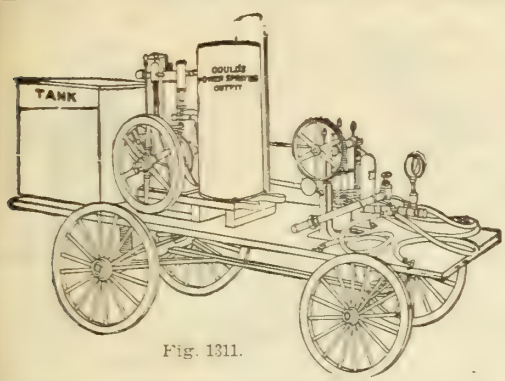


Fig. 1311.

Goulds Power Spraying Outfits.

Spraying outfits operated by gasoline engines now find sale among the more progressive orchardists and also to municipalities for protecting shade trees from ravages of insect pests. With these outfits spraying can be done very rapidly. About the farm gasoline engines can be put to a hundred other uses outside of spraying season. Below we describe a portable outfit which is used by many and gives universal satisfaction. Will supply twelve to twenty spray nozzles up to 100 pounds pressure. We furnish necessary connection between engine and pump. Half-round tank to fit in bolsters of wagon (see cut below) furnished, and outfit mounted on top when so ordered. Hose Nozzles, etc., see page 70.

Use our Gasoline Engines with these Pumps.

FIGURE 1311 (See Cut).—Shows bronze-fitted triplex pump with by-pass and water relief valve, 200-pound pressure gauge, brass discharge shut-off and four-hose couplings, connected with Portable Gasoline Engine complete, with both tube and electric igniter, including batteries, cooling tank, etc.

Buckeye Horizontal Power Pump.

No. 134.

Brass Valve Seats. Rubber-faced Valves.

Drain Cocks to Prevent Freezing. Small Floor Space.

Can be run from ten to sixty revolutions per minute, according to the work required.

No. 134 has 5-inch cylinder, 5-inch stroke, and is geared back 5 to 1. It is fitted regularly with 16-inch tight and loose pulleys and is bushed for 1-inch suction and ¾-inch discharge hose. The suction pipe connects to the pump at a point just above the cylinder on the principle of a siphon pump. Both sets of valves are placed above the cylinder of the pump, and both suction and discharge valves can be taken out to repair or clean by simply removing the caps in the hand holes on either side of the air chamber and without the necessity of removing the cylinder heads and plunger.

NO. 134 is used for spraying fruit trees, irrigating celery beds, and for mills and factories. Lime, sulphur and salt can be used with either of these Pumps.

POWER PUMPS are now largely used by farmers' clubs and persons who do spraying by contract.

No. 134—Brass lined cylinder.

Factory list.....**$70.00**
Our retail..... **55.00**

USE OUR GASOLINE ENGINES WITH THESE PUMPS.

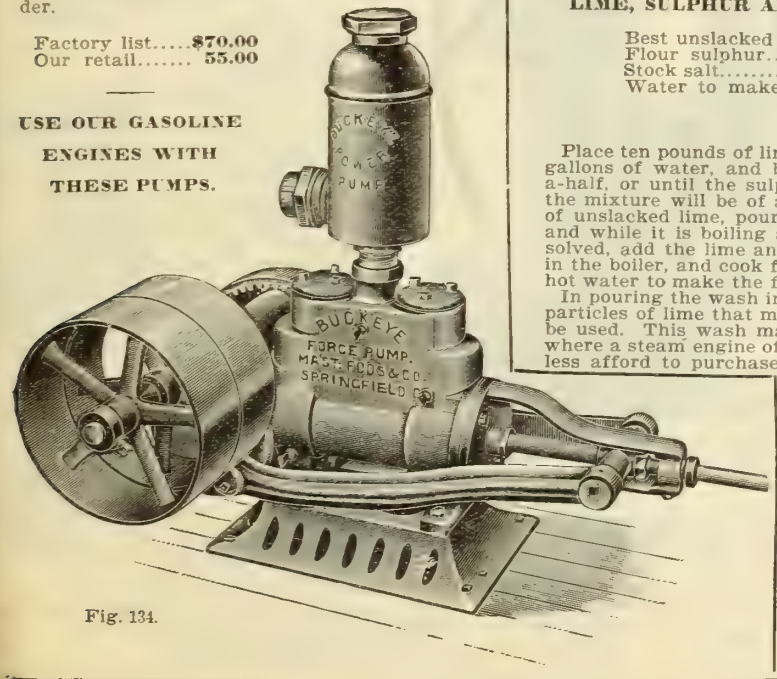


Fig. 134.

SPRAYING TANKS.

The staves are made of 1¼-inch pine, strongly gripped with steel and hard wood. The joints are machine made. The tank weighs about 200 pounds, is eight feet long, three feet wide, and holds 8 barrels of liquid. Tanks are furnished with or without an agitator.

The agitator (see engraving) keeps the liquid thoroughly stirred all the time, so the last gallon of spraying mixture is just as strong as the first used.

PRICES.

Tank, with Bolster and Agitator..... **$20.00**

Same, without Agitator. Price..... **$18.00**

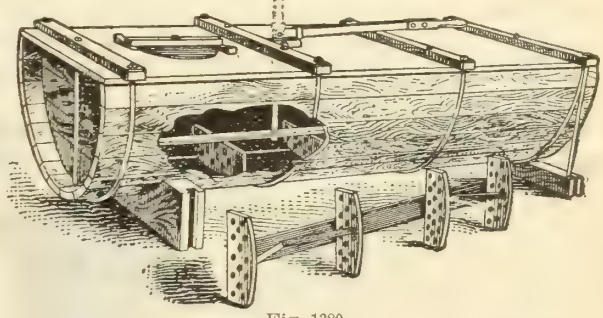


Fig. 1380.

LIME, SULPHUR AND SALT WASH.—TO MAKE FIFTY GALLONS.

Best unslacked lime	**30** pounds.
Flour sulphur	**15** pounds.
Stock salt	**12** pounds.
Water to make	**50** gallons.

DIRECTIONS.

Place ten pounds of lime and all of the sulphur in a boiler containing twenty gallons of water, and boil over a brisk fire for not less than one hour and a-half, or until the sulphur is thoroughly dissolved. When this takes place the mixture will be of an amber color. Next place in a cask twenty pounds of unslacked lime, pouring over it enough hot water to thoroughly slack it, and while it is boiling add the twelve pounds of salt. When the salt is dissolved, add the lime and salt mixture thus prepared to the lime and sulphur in the boiler, and cook for half an hour longer, when the necessary amount of hot water to make the fifty gallons should be added.

In pouring the wash into the barrel, it should be well strained to remove any particles of lime that may not have dissolved, and a fine wire strainer should be used. This wash may be more conveniently cooked by the use of steam, where a steam engine of any kind is available. Many orchardists could doubtless afford to purchase small, steam boilers, as steam food-cooking boilers, for the preparation of this wash. A boiler may be secured of sufficient size to cook two or three barrels of the wash at the same time, at a cost of from thirty to forty dollars. Best results will come from the use of the wash if applied to the trees in the spring, somewhat before the buds begin to swell. It is a very caustic treatment, and consequently can be used on trees only when in a practically dormant condition.

This is probably the cheapest treatment for the scale at present available, but it should be understood that it is somewhat troublesome to make and to apply.

The barrel "Pomona" Spray Pumps are excellent for the application of this wash.

It is essential that the pump have a strong agitator, otherwise the sediment will be inclined to settle on the bottom of the barrel.

For Prices on Rubber Hose, See Pages 57, 70 and 75.

SPRAY PUMPS, ETC.—Continued.

Gould's Knapsack "Kerowater."

FOR EMULSIFYING AND SPRAYING KEROSENE AND WATER.

Not Adapted for Using Lime, Salt and Sulphur Solution.

Fig. 1263.

(Fig. 1263.)

Many conditions are encountered under which the barrel "Kerowater" cannot be advantageously operated, as in greenhouses, work on side hills, etc. For these purposes we have introduced the (Fig. 1263) Knapsack "Kerowater." It is provided with straps for carrying on back, or may be used with reservoir resting on ground. It embodies the same principle as described under Fig. 1187, and consists of two independent pumps, operated by a common lever, placed in a galvanized iron tank, with divisions for oil and water. Combined capacity, about 5 gallons. Quantity of oil used is controlled by adjustment of a single pin, and may be varied to 5, 10, 15, 20 or 25 per cent. Pump may be operated by either hand by changing lever to right or left.

FIG. 1263.—Knapsack "Kerowater" complete, as shown in cut, with 4 feet of ¾-inch discharge hose, "Seneca" nozzle, and pipe extension 12 inches long.

List price.....**$12.00.** Retail price.....**$10.00.**

Lever Knapsack Spray Pump.

FIGURE 547.

Tank holds five gallons, is fitted with lid and strainer, which can be removed. This Pump has lever, large air-chamber, ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. The Pump can be easily removed and is fitted with handle, so that the operator can use it the same as our tank with bucket pump.

No. 330, Fig. 547.—Fitted with five feet one-half inch hose, pipe extension and Bordeaux spray nozzle, can be graduated from a fine mist to a solid stream, or shut off entirely. Retail price.....**$6.00.** List price.....**$10.00.**

Any other nozzle furnished with these Pumps when ordered.

THE PERFECT KNAPSACK SPRAY PUMP. (Fig. 547.)

It is identically the same as 330, with the exception that the tank is constructed entirely of copper.

No. 331, Figure 547, complete with hose, stop-cock, pipe extension and Bordeaux nozzle. Retail price, **$9.60.** List price, **$16.00.**

First-Class Outfit at a Reasonable Price.

Figures 547-599 are not intended for kerosene and water

The Fountain Spray Pump

FIGURE 599.—Accompanying illustration represents the Fountain Knapsack, Nos. 332 and 333, constructed of first quality galvanized iron, with round corners, built precisely the same as regular Knapsack with removable strainer and tight lid. It is fitted with adjustable straps so as to be carried on the back, or it can be carried by hail, as shown by dotted lines.

We furnish hose and fixtures to be attached to a barrel or tank placed on a wagon. This is desirable when spraying large fields of cotton or potatoes.

CAUTION.—Always mix Paris Green or London Purple in a separate vessel, forming into a paste before adding the water. In this way everything will be dissolved and will not need to be agitated.

Fig. 599.

No. 332, Fig. 599.—Fountain Knapsack Spray Pump, with one tube, rubber bulb and rose.
Retail price.....**$3.00**
List price..... **5.00**

No. 333, Fig. 599.—Fountain Knapsack Spray Pump, with two tubes, rubber bulbs and roses, to work with both hands. Retail price.....**$4.25**
List price..... **7.00**

Extra tube, rubber bulb and rose.
Retail price.....**$1.25**
List price..... **2.00**

GOULD'S "KEROWATER"

FOR EMULSIFYING and SPRAYING KEROSENE AND WATER.

Not Adapted for Using Lime, Salt and Sulphur Solution.

Consists of two pumps—one for water, one for oil, having but one exit at the hose. Both pumps are within the barrel. Instead of mixing the oil and water at the suction, emulsion is made at discharge. Kerosene is poured into the oil tank through a marked filling hole, and water into the barrel. Amount of oil used is controlled by the proportionate stroke of the pumps. In end of lever are drilled a number of holes (see top of cut), into one of which is inserted a coupling pin. By removing pin from one set of holes to another the percentage of oil can be graded from 5 to 25 per cent. easily and quickly. Figures near each hole indicate the percentage of oil the pin working in that hole will supply. The mixture is positively accurate. A brass shut-off attached to hose near the top prevents pure oil being thrown at any time.

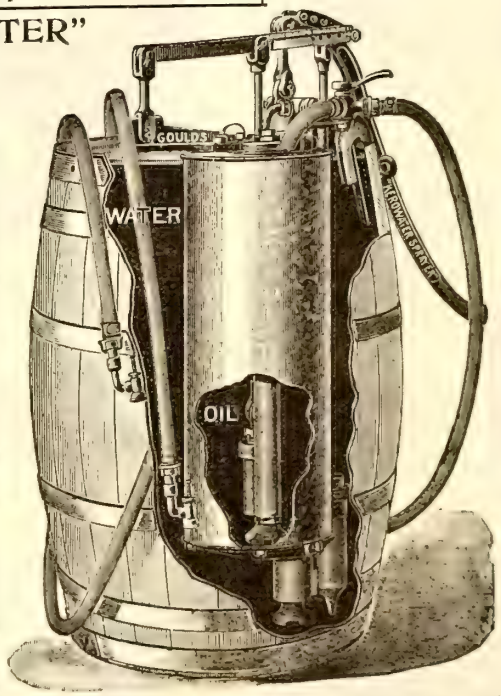


FIG. 1187.—Figures on gauge indicate per cent. of oil to entire mixture which will be pumped when indicator is placed at the different per cent. marks. Thus when indicator points to **0** the valve in kerosene tank is closed, so that pure water will be pumped. By turning indicator a certain amount the check valve controlling the oil is allowed to raise a definite height, allowing a definite amount of oil to pass into pump cylinder. Proportion of oil does not vary except as oil indicator is turned.

Table Showing Uses of Kerosene Sprayers and Per Cent. of Oil Required.

Uses of the different proportions of oil.

Position of Indicator Showing Per Cent. of Oil.

0—Pure water will be pumped when the oil valve is closed.	
5—Seldom used.	
10—Mealy bugs, scale insects and plant lice on tender plants. Horn flies on cattle. *Will not injure the foliage on tender plants.*	
15—Scale insects and plant lice of all kinds, except on tender hot-house plants. All caterpillars exposed on leaves, cabbage worms, ants, chinch bugs on corn. *Will not injure ordinary foliage.*	
20—Scale insects and plant lice not killed by 15 per cent. of oil. Lice on cattle, dogs, horses and poultry. Mites in poultry-houses. *Will rarely injure ordinary foliage.*	
30—Lice on hogs. Fleas on cats, dogs, etc. *Cannot be used on foliage without injury.*	
40—Ticks on cattle.	
50—For the winter treatment of scale insects.	

FUNGICIDES.

For Rots, Blights, Mildews and Other Fungous Diseases.

BORDEAUX MIXTURE.—Copper sulphate (blue vitriol), 6 lbs.; quick, or stone lime, 4 lbs.; water, 45 to 50 gallons.

EXAMPLE FOR FIGURE 1187.

To make a mixture containing 15 per cent. oil (the proportion we recommend for general use), it is only necessary to fill the main tank with water and the smaller one with kerosene; turn the indicator to the 15 per cent. mark, and the apparatus is ready for use. A new proportion of oil may be obtained by simply changing the position of the indicator. When the position of the indicator is changed, however, the new proportion will not be obtained until a few strokes have cleared the mixture already in the pump.

FIGURE 1187.—Sizes, Prices, Etc.

	Prices. List.	Retail.
Outfit A, for Single Spray.—"Kerowater" Sprayer, with one lead 10 ft.; ½ in. discharge hose, with "Seneca" (or Vermorel) spray nozzle, including barrel.	**$23.75**	**$20.50**
Outfit B, for Double Spray.—"Kerowater" Sprayer, with two leads 10 ft. each; ½ in. discharge hose, with "Seneca" (or Vermorel) spray nozzle, including barrel.	**26.50**	**23.00**

For Prices on Rubber Hose, See Pages 57, 70 and 75.

SPRAY NOZZLES AND POWDER GUNS.

IMPROVED
VERMOREL NOZZLE

For Spraying Lime, Sulphur and Salt Wash.

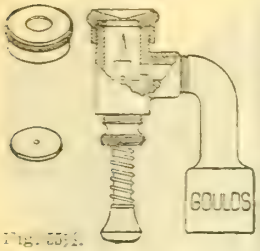


Fig. 55½.

Fig. 55½ is our improved Vermorel Nozzle with hard rubber disc in cap for spraying lime, sulphur and salt solution.

Fig. 55½.—½-inch hose.
List price.....$1.00
Retail price..... .75

VERMOREL NOZZLE

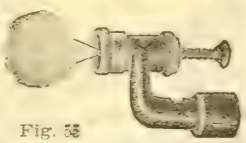


Fig. 55

Each With Degorger.

One Discharge—
List price.....$1.00
Retail price..... .75
Two Discharge—
List price..... 2.00
Retail price..... 1.50
Three discharge—
List price..... 2.75
Retail price..... 2.00
Four Discharge—
List price..... 3.50
Retail price..... 2.50

Fig. 55½.—For hose (including either Figs. 65 or 67 as ordered). See page 70.
List price.....$1.25
Retail price..... 1.00

Bordeaux Nozzle.

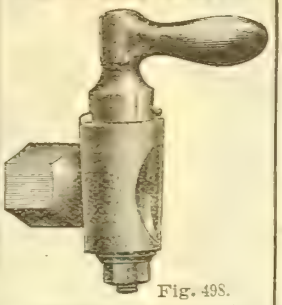


Fig. 49S.

Whitewashing and painting, as well as for other spraying.
List price.....$1.00
Retail price..... .75

SENECA NOZZLE

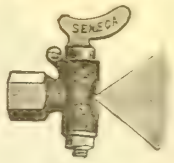


Fig. 81.

"Seneca" Nozzles give fan-shaped spray; also serve as shut-off. Similar to Bordeaux.....75c.

SPRAY PUMP HOSE.

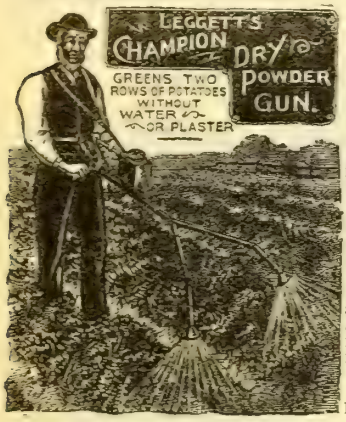
¼-inch, XX.....10c.
½-inch, Spray No. 1...12c.
½-inch, Spray No. 2...15c.
1-inch, Baltimore.....20c.

CYCLONE NOZZLE

Fig. 51.

"Cyclone" Spray Nozzle is similar in form of spray to "Vermorel." It has a side discharge, making it particularly suitable for spraying the under and lower portions of foliage.

Price, cut for ¼-inch pipe.....50c.



For farm, garden, vineyard, tobacco fields, etc. Adjustable to any width of row. Many thousands in use. Distributes Paris Green, London Purple, Hellebore, Sulphur, Lime, Dry Bordeaux Mixture, Dry Bordeaux Mixture and Paris Green Compound, Spanish Pink, Pyrethrum Powder, etc.

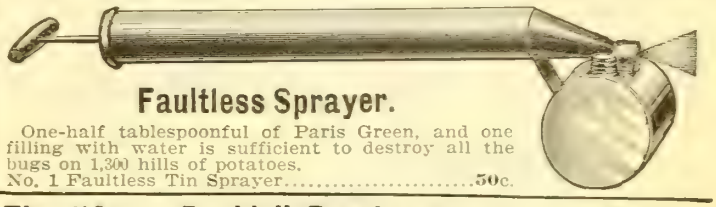
This Machine Keeps the Poison at a Safe Distance From the Operator.

Dusts potato vines as fast as you walk, two rows at a time. Each machine is furnished with two tubes, five nozzles and strap.

Anyone can use it.

Weighs, cased for shipping, 14 pounds.

Price.....$7.50



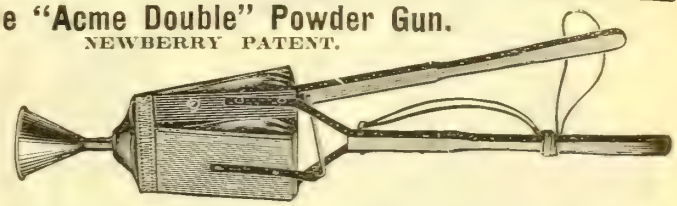
Faultless Sprayer.

One-half tablespoonful of Paris Green, and one filling with water is sufficient to destroy all the bugs on 1,300 hills of potatoes.

No. 1 Faultless Tin Sprayer.....50c.

The "Acme Double" Powder Gun.

NEWBERRY PATENT.



It is but little heavier than our "Acme," and will apply a continuous blast of dry poison to any plant. You can apply any desired quantity to each plant as its needs require. All parts of the "Acme Double" Powder Gun are thoroughly protected. There are no adjustments to make, no loose parts to get out of order. Is furnished with detachable elbow and spreader.

Price.....$1.50.

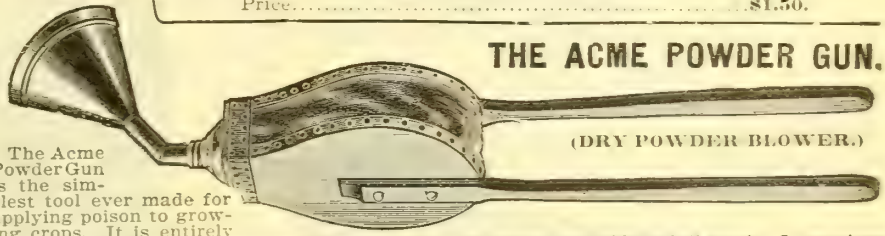
The Acme Plaster Sifter.

Price..... 25c.

This is a most convenient, serviceable, little tool, and at the price will prove a good investment. It handles land plaster and any similar substance without the necessity of covering the hands or the clothing with the poisoned powder. We furnish a false bottom, which prevents anything clogging the agitator.

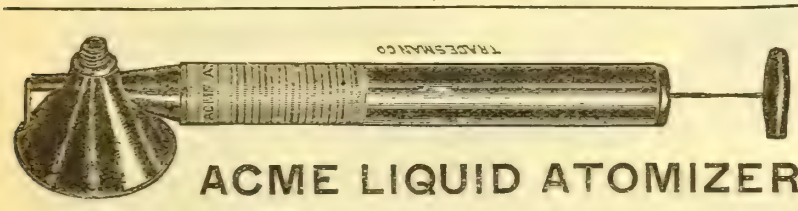
THE ACME POWDER GUN.

(DRY POWDER BLOWER.)



The Acme Powder Gun is the simplest tool ever made for applying poison to growing crops. It is entirely independent of water or plaster. No poison is left about the fields to kill stock. It requires no base of supplies; all you need carry is a can of dry insecticide and the gun. Without stooping—the elbow does it—it applies any powdered poison on any plant in any desired quantity any time of the day. The elbow may be detached if desired. This tool is well made of the best materials, and is thoroughly guaranteed. The bellows sides are painted a bright vermilion, and the handles finished bright. The leather is a fine russet. We also furnish a spreader for distributing the blast.

Price..... 75c.



ACME LIQUID ATOMIZER.

For spraying Paris Green and other insecticides on potato plants, shrubs, small trees, house plants, live stock and poultry. A great labor-saver on every farm, in every garden, barn, greenhouse, orchard and hennery. Applies the finest spray on desired objects and exterminates any kind of insect life. By actual test we find this to be a most desirable article to spray turpentine for the destruction of moths. Quite a number are now in use for this purpose with the most satisfactory results.

Prices.—Tin Atomizers, 50c.; Galvanized Tank, 55c.; Brass Tank, 75c.

FOUR-ROW SPRAYING ATTACHMENT.

Perfection Double Atomizer.

More solution can be thrown with this than with a single Atomizer; covers more space.

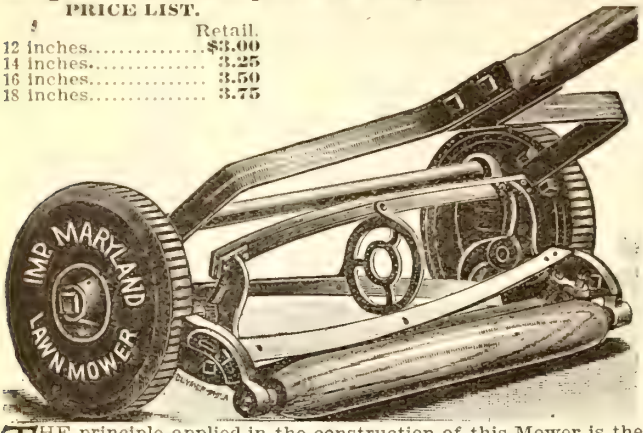
PRICE.
Tin Double Sprayers.....55c.
Galvanized Double.....60c.
Brass Tank Double.....75c.

Fig. 1132.—The cut represents an attachment for spraying four rows of potatoes with any of our larger spray pumps. It has four "Seneca" Nozzles and connections for hose. Total length, 9 feet.
Price, as per cut.....Retail, **$5.00.** List, **$7.09.** Also furnished two-row attachments. Price.....**$2.50.**

Improved Maryland Regular Mower.

PRICE LIST.

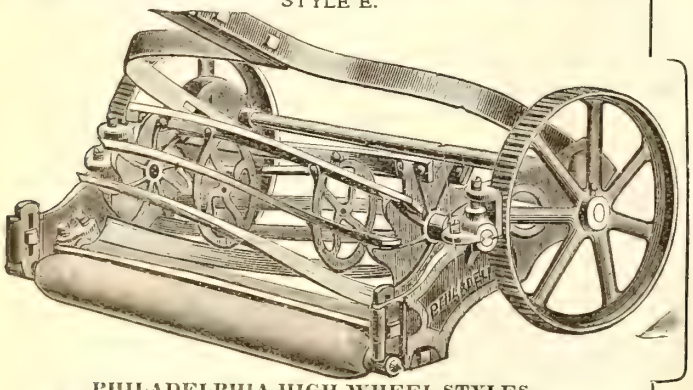
	Retail.
12 inches	$3.00
14 inches	3.25
16 inches	3.50
18 inches	3.75



THE principle applied in the construction of this Mower is the same as used on machines which are sold for very much more money. The pawl and pinion attachment has been thoroughly tested and is beyond question one of the best to be obtained; 3 blades, 8-inch wheel, 5¼-inch cylinder, single pinion. Geared on both sides.

Philadelphia High-Wheel Mower.

STYLE E.

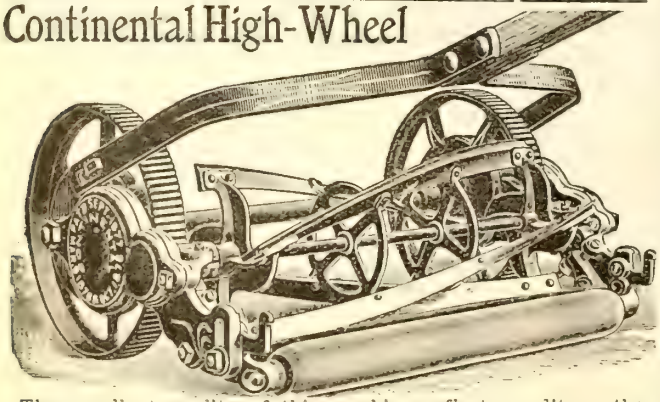


PHILADELPHIA HIGH WHEEL STYLES.

This Mower contains an improvement that all mowers lack in their construction. A solid frame, that the revolving cylinder can be removed by simply loosening the set screws to the box caps and removing them and the cutting cylinder.

15-inch	List price, $25.00.	Retail price, $9.00.
17-inch	List price, 28.00.	Retail price, 10.00.
19-inch	List price, 31.00.	Retail price, 11.00.
21-inch	List price, 34.00.	Retail price, 12.00.

Continental High-Wheel



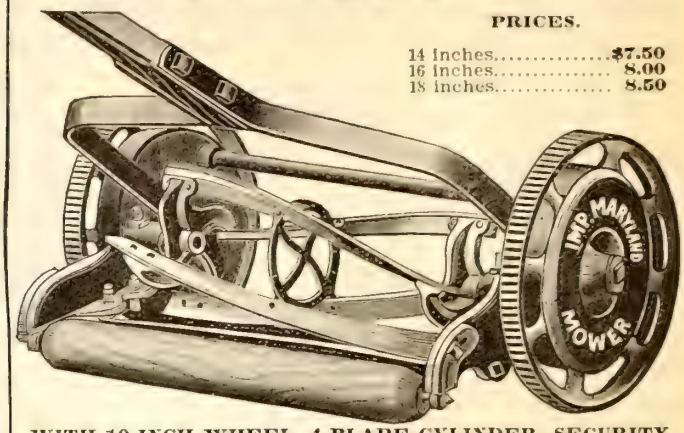
The excellent quality of this machine reflects credit on the manufacturers, their aim being to secure a lawn mower which would give the best possible results. This machine will cut fine grass two inches high, also grass six to eight inches. We highly recommend this machine.

	List Prices.	Retail Prices.
15 inches	$25.00	$10.50
17 inches	28.00	11.75
19 inches	31.00	13.00
21 inches	34.00	14.00

Improved Maryland HIGH WHEEL Mower.

PRICES.

14 inches	$7.50
16 inches	8.00
18 inches	8.50



WITH 10-INCH WHEEL, 4-BLADE CYLINDER, SECURITY INCASED GEARS, NOISELESS RATCHET. THE MOWER GEARED ON BOTH SIDES.

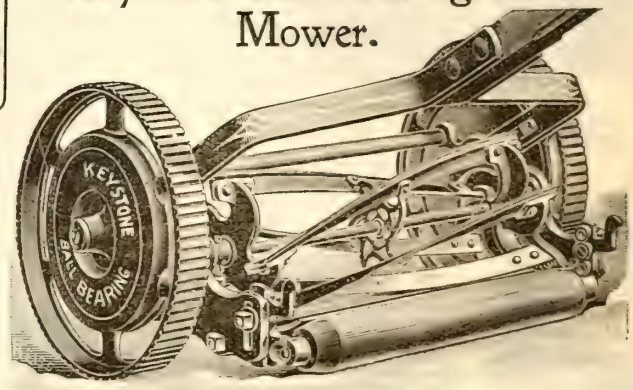
No pains have been spared to make this the superior of all others of its class. It is mechanically proportioned so as to run light and do fine work. Our customers will make no mistake in ordering this Mower.

GOLF MOWERS

Are similar in style to the High Wheel E Mowers, combining all their improvements, for with their eight blades and peculiarly constructed knife bar as attached to side frame tilting the knife to the ground, it is especially adapted to make a very close, even and fine cut, which is so much desired on golf links.

	List Price.	Retail Price.
15 inches	$25.00	$12.50
17 inches	28.00	14.00
19 inches	31.00	15.50
21 inches	34.00	17.00

Keystone Ball Bearing Lawn Mower.



Every detail of this Mower is in keeping with the high grade of the Pennsylvania and Continental Mowers. The highest grade steel balls of great exactness are used in dust-proof, steel-covered cups. The dead knife of solid cast steel can be regulated to cut from ⅜ to 1⅜ inches from the ground.

	List Price.	Retail Price.
15 inches	$25.00	$9.50
17 inches	28.00	10.50
19 inches	31.00	11.50
21 inches	34.00	12.50

Pennsylvania High-Wheel Mower.

This high-grade Mower has an extra large cylinder, an extra power of gearing and is constructed for cutting ordinary grass, as well as grass from six to ten inches high. Wheel, 10½ inches; cylinder, 6½ inches. Four crucible steel knives, hardened and tempered in oil.

	List Price.	Retail Price.
15 inches	$25.00	$10.25
17 inches	28.00	11.25
19 inches	31.00	12.50
21 inches	34.00	13.50

"THE BALTIMORE" HORSE LAWN MOWER

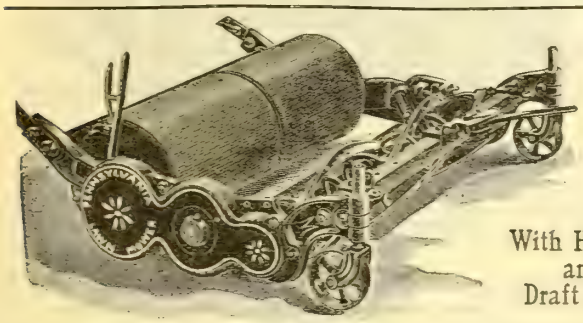
Efficient Mechanics to Repair Lawn Mowers.

The Baltimore Horse Lawn Mower is guaranteed to be equal to any machine made; in order to appreciate its good points it is necessary to see it at work on the lawn, where it performs in a most satisfactory manner.

25-inch Machine, with draft rod.....	Retail Price, $40.00.	List Price, $65.00.
30-inch Machine, with draft rod.....	Retail Price, 60.00.	List Price, 100.00.
30-inch Machine, shafts and seat.....	Retail Price, 65.00.	List Price, 110.00.
35-inch Machine, with shafts and seat....	Retail Price, 77.50.	List Price, 135.00.

Special Discount for Cash.

The Pennsylvania Horse Lawn Mower



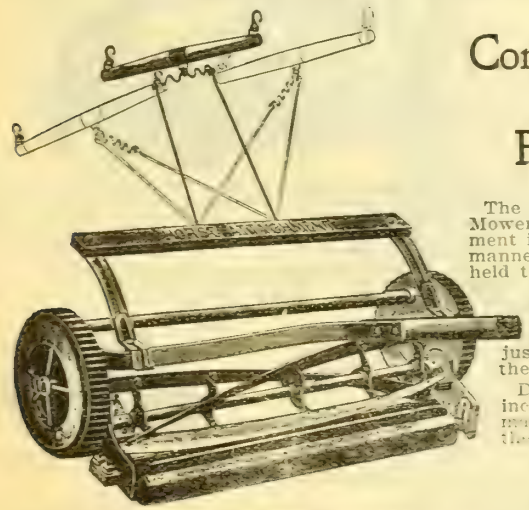
With Handles and Draft Irons.

It is fitted with the Pennsylvania train of gears, the main shaft running in bronze bushings to minimize wear. It has an open cylinder fitted with either four or six knives of the best crucible tool steel, hardened and tempered in oil after leaving the bending machine. The dead knife is the improved upturned pattern, insuring a self-sharpening Mower until the lower knife is entirely worn out.

The adjustments of this Mower are simple, efficient and easily managed. It has a device for throwing the machine out of gear, which stops the cylinder while the machine is driven across walks, roads, etc. Furnished with handles and draft irons, the latter arranged to swing to the side, thus permitting the horse to walk on the cut grass.

30-inch cut. Weight, 358 lbs. 4 knives. List, $100.00. Retail, $65.00.
38-inch cut. Weight, 400 lbs. 4 knives. List, 130.00. Retail, 85.00.
For shafts, seat and footboard, add $12. **Special Discount for Cash.**

Combination Hand and Pony Mower.



The patented horse attachment of the Mower is its great feature. This attachment is adjusted to the Mower in such a manner that, in operation, the Mower is held to the ground, and the disagreeable "tipping up" of the rear of the Mower, which is a serious objection to many machines, is impossible. The draft of the Mower is just the same as when operated with the handle.

Diameter of traction wheels, ten inches. Weight, ninety pounds. Best material and workmanship is used in the making of these machines.

Price..... $18.00

Special Discount for Cash.

The Old Style Philadelphia Horse Lawn Mower.

This style Mower is being used on all the Government grounds, public parks and large lawns in the country. This Mower with the solid [illegible] cutter has four blades and is the original Philadelphia Horse Mower. Every machine warranted. In ordering, please designate if with open or closed cylinder.

	List.	Retail.
[illegible] in., with draft rod.....	$100.00	$70.00
[illegible] in., with draft rod.....	100.00	70.00

Special Discount for Cash.

Philadelphia I. X. L. Horse Lawn Mowers.

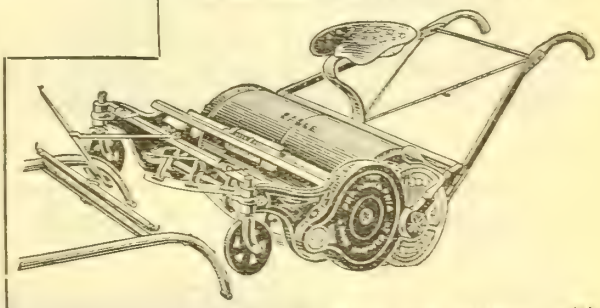
These goods are made from the best material and finished by the latest approved methods of manufacture.

	List.	Retail.
20 in., with draft rod.....	$90.00	$50.00
30 in., with shafts and seat.	100.00	55.00
35 in., complete, with shafts and seat.....	125.00	70.00
40 in., with shafts and seat.....	150.00	85.00

Special Discount for Cash.

A swingle-tree and chain attachment will be furnished for $2.00 net if wanted. If used must be attached to the ends of the side draft attachment, for the draft rod will bend if attached in centre.

Philadelphia Eagle Horse Lawn Mower.



Made from entire new patterns, with added weight of iron for strength; increased diameter of cylinder for draft; large shafting and journals for durability, and 7½-inch diameter cutting cylinder for high speed. Patent adjustable boxes for taking up the wear of journals; wrought-iron front and back girths making the Mower frame solid.

We have no hesitancy in saying this is one of the best Mowers for the purpose the factory ever turned out.

Cutting cylinder stationary. Bed knife adjustable. Best oil-tempered steel is used in construction of knives.

[illegible]-inch, with seat and shafts and draft pole.
List price..... $100.00
Retail price..... 65.00

35-inch, with seat and shafts and draft pole.
List price..... $125.00
Retail price..... 80.00

40-inch, with seat and shafts and draft pole.
List price..... $150.00
Retail price..... 95.00

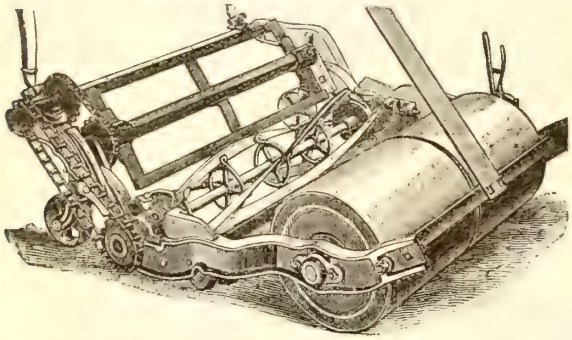
Special Discount for Cash.

Prices Subject to Change Without Notice.

Lawn Mower Repairing and Sharpening.

SEND in your **LAWN MOWERS early** for sharpening and repairing. This department, in season, is run to its full capacity, and in consequence we are compelled to adopt the policy of "first come first served." We wish to urge upon our friends the necessity for complying with the above request, and if they do no one need have to wait while the grass is growing. **Look over your machines during the winter** (this applies to other kinds of machinery as well as Lawn Mowers) **and see what repairs are needed. Do not wait until spring work is crowding you.** We employ efficient mechanics to do our machine repairing and turn out jobs in the best possible manner and as expeditiously as the quality of the work will admit. To properly sharpen a Lawn Mower requires someone who thoroughly understands his business, and even though it may be properly sharpened, unless it is adjusted to a hair it will not cut. After we turn out a machine it should be severely let alone, and if it does not cut send it back to us and do not attempt to adjust it yourself. There is no mower that leaves our shop that is not adjusted to cut tissue paper, and if it does not do the work satisfactorily it is owing to hard usage before reaching its destination. The cheap machines that are flooding the market are made of cheap material and will wear only a short while, and can rarely be repaired at all.

Pennsylvania High Grass and Weed Buckler.



An attachment to the Pennsylvania Horse Mower that will assist the cylinder to take in and cut the highest grass, buckthorn, chicory or dandelion that may be found on any lawn.

The buckler is 15 inches above ground at its highest point. It has many times buckled weeds that stood 20 inches high. Nothing can escape it, as the edges are saw-toothed and draw down everything that comes in contact with them.

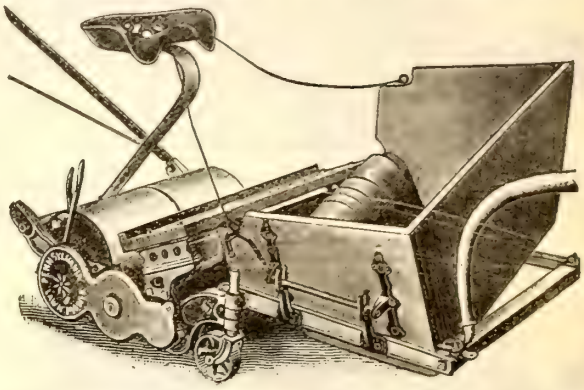
The increased power required to drive the buckler is below computation.

Horse Mowers can be ordered with the buckler attached or the buckler will be furnished separately and will fit any of the Pennsylvania Horse Mowers as they are sold today. It can be attached by a mechanic. When desired the link belt can be removed and the mower used in the ordinary manner.

PRICES.

For 30-inch Mower.....$25.00
For 38-inch Mower..... 30.00

Horse Mower Grass Catcher.



CAN ONLY BE ATTACHED TO THE PENNSYLVANIA HORSE MOWERS.

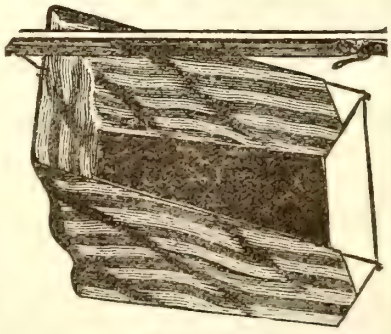
This catcher is light, yet durable, being made of sheet steel metal, with wooden ends. It is hung in open hinges to permit lifting out. Can also be dumped to the left or right, and may be operated without the driver leaving his seat.

PRICES.

30-inch Mower.....$20.00
38-inch Mower..... 25.00

Universal Grass Catcher.

A GRASS CATCHER THAT WILL FIT ANY MOWER.



Canvas body, blacked sheet steel bottom.

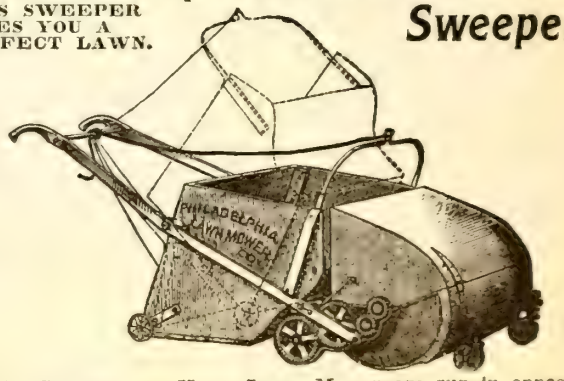
TWO SIZES.

No. 1 will fit 10, 12, 14 and 16 inch mower, and No. 2 will fit 16, 18 and 20 inch.

Price..... 75c.

Philadelphia Horse Lawn Sweeper.

THIS SWEEPER GIVES YOU A PERFECT LAWN.

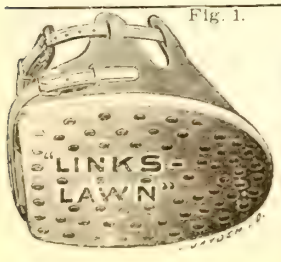


If the Sweeper and Horse Lawn Mower are run in opposite directions, the lawn will be nearly the same shade of color all over. The sweeper is drawn by a draft rod, same as the 30-inch Pony Mower. It is not shown in cut.

Price of 40-inch Lawn Sweeper.....$70.00

"LINKS-LAWN" BOOT.

Fig. 1.



Is fastened firmly to the hoof instead of around the ankle, thus giving free action to the horse's feet and obviating all possibility of chafing. Our process of hardening, water-proofing and steel-riveting the sole inside and out (see cut Fig. 1) gives a durability never before obtained in a lawn boot. The cut (Fig. 2) shows the rolling toe which prevents the cutting of the turf and also indicates how simple and positive the fastening is.

REGULAR SIZES.

WIDTH INSIDE.

No. 2.....5½ inches.
No. 4.....6½ inches.
No. 6.....7 inches.

The right sizes for Nos. 2, 4 and 6 horseshoes.

Fig. 2.

No. 0 Mule and No. 1 Pony.

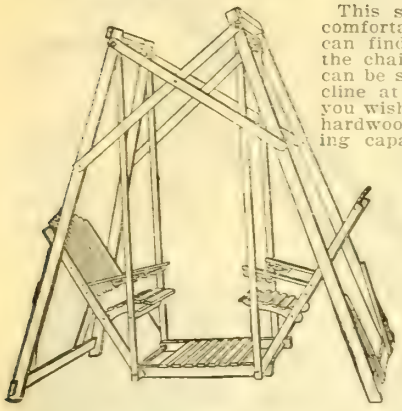
Special Sizes to Order.

WIDTH INSIDE.

4 inches. 4½ inches.

Price, any size.....$8.00 per set.

Our Special Lawn Swing.



This swing affords the most comfortable lounging place you can find, and as the backs of the chairs are adjustable, they can be set up as straight or incline at as great an angle as you wish. It is built of the best hardwood lumber, with a carrying capacity of two and four adults, but is strong enough to carry six children.

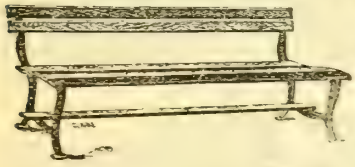
Handsomely painted in deep red and nicely varnished.

We can furnish a cheap swing if same is wanted, but the quality of material and workmanship, of necessity, will not compare with the above, which is one of the best swings on the market.

OUR SPECIAL PRICE:

No. 2.—Two-passenger..... $6.00
No. 2.—Four-passenger..... 8.00

Baltimore Lawn Settees.



This most comfortable Lawn Seat is illustrated herewith. It is attractive and gives plenty of room. Just the thing for parks, porches, picnic grounds, hotels, cemeteries, etc.

Painted bright red and varnished. Weight, No. 6, 65 pounds.

OUR SPECIAL PRICE:

Per foot..... 75c.

We carry in stock 4 and 5-foot length seats.

Folding Lawn Settee.

Made from selected hard wood. Finished in natural color or painted red, with seat slats, natural color. Length, 42 inches.

OUR SPECIAL PRICE.....$1.00

FLOWER TUBS.

COLUMBIA, NO. 1 PLAIN.

Made of cypress. Natural varnish finish on the wood, or if wanted can finish them in oil paint, but to order only.

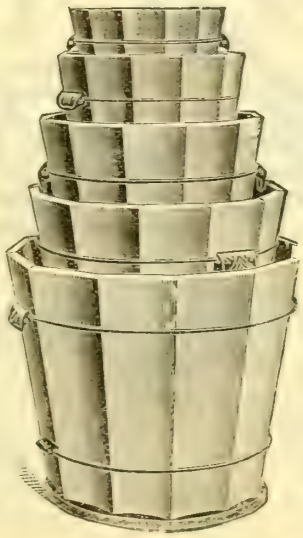
12 inches in diameter by 11 inches high.
Each..... $1.00

15 inches in diameter, by 14 inches high.
Each..... $1.50

18 inches in diameter by 16½ inches high.
Each..... $2.00

21 inches in diameter by 18½ inches high.
Each..... $2.50

24 inches in diameter by 20½ inches high.
Each..... $3.00



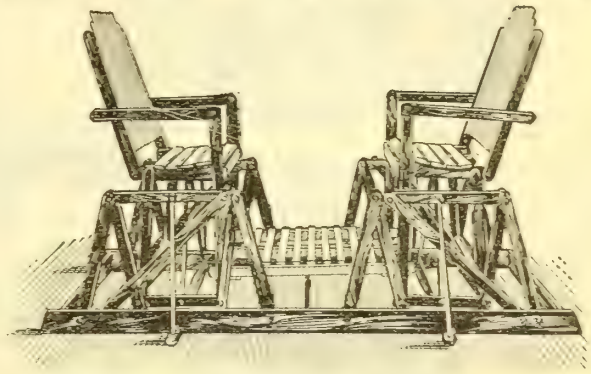
The Arctic Swinging Chair.

THE LATEST DESIGN FOR A SWINGING CHAIR YET PRODUCED.

It occupies on the porch floor a space about six feet long by three feet wide and about six feet high. It is made of the most substantial material, the best of dry hard wood with steel arms and braces, and arch of steel tubing. It is provided with a footrest, adjustable for children or adults, is nicely painted and varnished and has durable canvas back. It weighs about forty-five pounds, folds up easily like a jack-knife, and is readily moved from place to place. It is better and cooler than any hammock, and occupies less space. It is shipped entirely set up and ready for use by the simple adjustment of the thumb nuts and two bolts.

OUR SPECIAL PRICE.....$4.00

Low-Down Porch Swing.



Light, strong, durable, very compact, easily handled, and requires no more than two rockers. Can be placed on any porch under any shade tree or arbor, or in any room in the house, or in the nursery, thus making it a useful piece of furniture the year round. The backs of the swing may be adjusted to any desired position. Without being thrown back and footrest raised, and with the addition of robes and cushions, it makes a most comfortable swinging couch. A swinging motion can be had, and as the side supports extend only to the seats there is nothing to obstruct the view or produce dizziness, and a most pleasant swinging sensation is the result. The swing has an adjustable footrest that may be placed at the proper height to suit the children, and it is so perfectly balanced that the smallest child can operate it. It is an ornament to any lawn or porch.

OUR SPECIAL PRICE:

Two-passenger swing.....$8.00
Four-passenger swing..... 9.00

U. S. Flower Tubs.

Cypress, Painted Green. Iron Feet and Iron Bound.

No. 1—13x11
Each..... $0.75

No. 2—14½x13
Each..... 1.15

No. 3—16x15
Each..... 1.50

No. 4—20x18
Each..... 2.00

No. 5—24x21
Each..... 2.50

NEW UNIVERSAL GARDEN TOOLS.

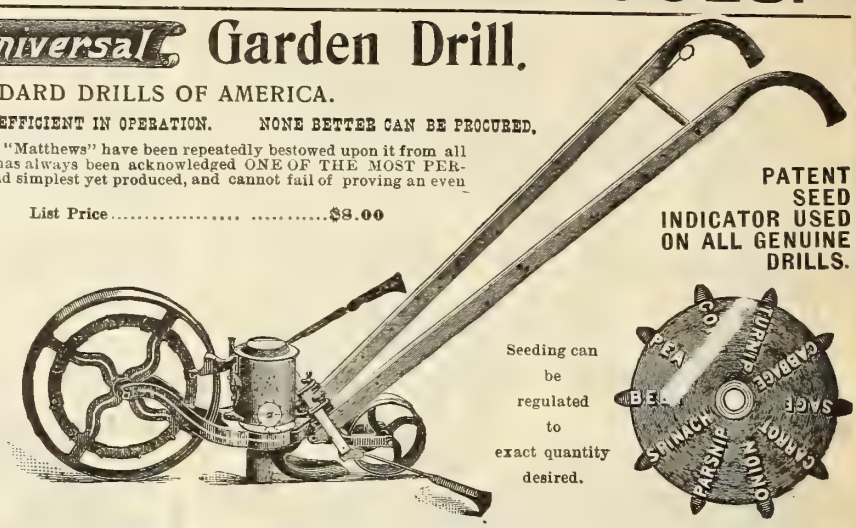
Matthews' New Universal Garden Drill.

ONE OF THE STANDARD DRILLS OF AMERICA.

SIMPLE IN CONSTRUCTION. NEAT IN DESIGN. EFFICIENT IN OPERATION. NONE BETTER CAN BE PROCURED.

Medals and testimonials confirming the superiority of the "Matthews" have been repeatedly bestowed upon it from all quarters, and as it has been improved from time to time it has always been acknowledged ONE OF THE MOST PERFECT DRILLS MADE. The present form is the neatest and simplest yet produced, and cannot fail of proving an even more popular modification of this reliable Drill.

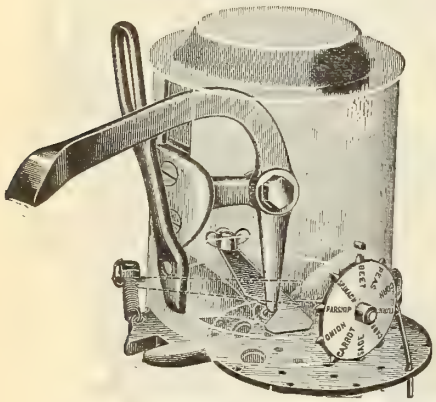
Our Retail Price.....$6.50 List Price.....$8.00



PATENT SEED INDICATOR USED ON ALL GENUINE DRILLS.

Seeding can be regulated to exact quantity desired.

The Seeding Device.



THE SEEDING DEVICE employed on all Matthews' Seeders is set forth in the accompanying illustration, showing transparently the solid wall of the seed box. The indicator, which is also shown above, has the names of the various seeds plainly marked upon it. The DIAL has a separate hole for each kind of seed, which registers in the CENTRE of the hole in bottom of seed-box. The hole in the dial may be gauged to a nicety by means of the REGULATOR, held by a thumb-screw. To lead the seed to the central opening there is provided a CORRUGATED and shouldered bottom, which admits of dropping any quantity of seed, even to a SINGLE PAPER. The feed is practically a force feed. No other device ever met with the success of the AGITATOR. Principally for dropping all the small garden seeds. The seed is not bruised or damaged by the AGITATOR. The MANUAL CUT-OFF indicated in the illustration by the dotted lines, with its spiral spring connection, is worked from the handle by a wire, and the flow of seed may thus be instantly checked. No seed need be wasted in turning rows.

Matthews' New Universal Hill and Drill Seeder.

This implement is the same in style and working qualities as the one just described, but is arranged so as to drop the seed continuously in drills or at a distance of 4, 8, 12, 16, 24 and 48 inches apart. The adjustment from drills to hills is made by one screw in attaching a brass cut-off to the agitator. The distance apart is regulated by the number of cogs on the driving wheel against which the agitator strikes. The seed cannot drop except when the hole in the bottom of seed-box is opened by the agitator striking a cog on the wheel, and it immediately closes again as the agitator drops. This saves seed, as no more need be dropped at a time than is desired, no matter what the distance may be. There are no parts to wear or get out of order. If this implement is wanted be sure and order the "Hill and Drill Seeder," as the regular garden drill cannot be fitted with the attachments. Our retail price, **$7.25.** List price, **$9.00.**

The manufacturers of this line do not make a Hill and Drill Seeder with cultivating attachments, and we would recommend, as FAR PREFERABLE, one of the above separate drills and a separate single wheel hoe complete, with ALL the attachments, for which our retail price covering the two separate implements **is only $12.00.**

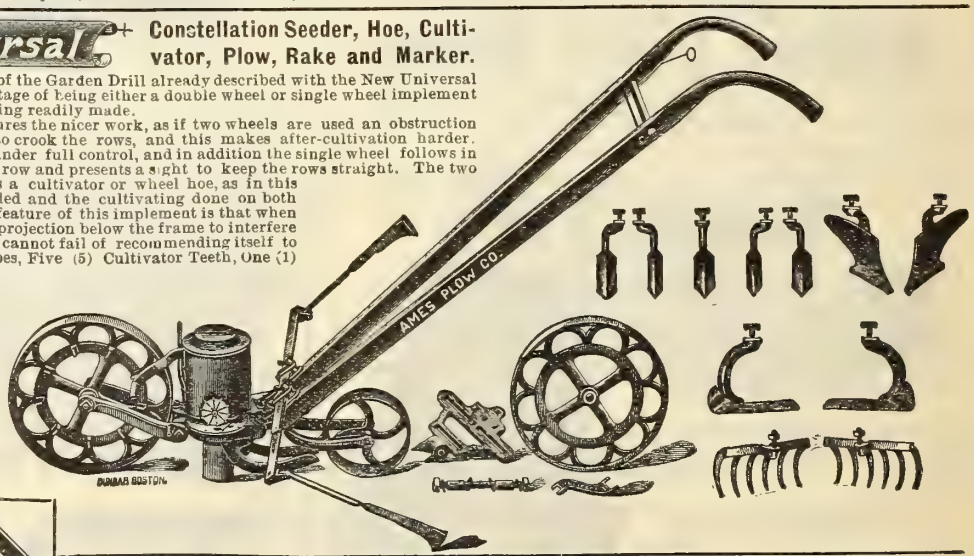
Matthews' New Universal Constellation Seeder, Hoe, Cultivator, Plow, Rake and Marker.

This is not only a desirable combination of the Garden Drill already described with the New Universal Cultivating attachment, but it has the advantage of being either a double wheel or single wheel implement at will, the change from one to the other being readily made.

The use of a one-wheel Seed Sower insures the nicer work, as if two wheels are used an obstruction under one wheel or the other has a tendency to crook the rows, and this makes after-cultivation harder. The operator always has a one-wheel seeder under full control, and in addition the single wheel follows in the mark made when planting the previous row and presents a sight to keep the rows straight. The two wheels are desirable, however, when used as a cultivator or wheel hoe, as in this way the rows of young plants may be straddled and the cultivating done on both sides of the row at one passing. The special feature of this implement is that when used in straddle row cultivation there is no projection below the frame to interfere with plants. The combination is one which cannot fail of recommending itself to all. The attachments are—One (1) Pair Hoes, Five (5) Cultivator Teeth, One (1) Pair Rakes, One (1) Pair Plows.

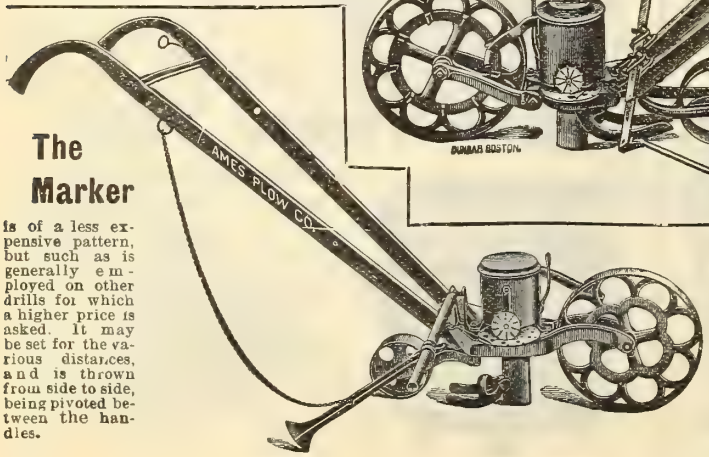
List Price, boxed.....$10.50
Net Price, " 8.50

Can be used as one wheel or two wheel.



The Marker

is of a less expensive pattern, but such as is generally employed on other drills for which a higher price is asked. It may be set for the various distances, and is thrown from side to side, being pivoted between the handles.

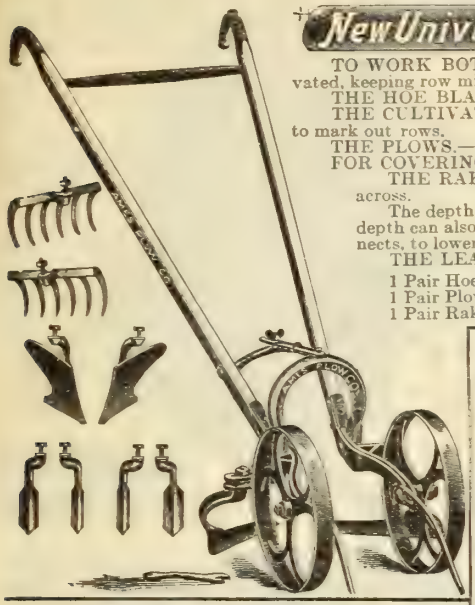


New Universal Gem Seed Drill.

It has a new seed regulator for gauging the exact flow of seed required; seed cut-off for stopping the flow while turning at the ends of rows, and marker adjuster for marking the rows at any desired distance apart. We do not recommend it for use instead of the larger drills, but we are sure that all in want of such a drill as we represent will find this to be a very valuable implement.

Retail Price, **$5.00** List Price, **$6.25**

☞ Send for Special Catalogue containing full description of all New Universal and Matthews' Tools.



New Universal Hand Double Wheel Hoe, Cultivator, Plow and Rake

TO WORK BOTH SIDES of a row at one passing, the attachments can be set to suit width of crop to be cultivated, keeping row midway between wheels.

THE HOE BLADES can be set to turn in or out, as desired by the operator.

THE CULTIVATOR TEETH.—Four are furnished with each. Two cultivator teeth can be used at desired width to mark out rows.

THE PLOWS.—For furrowing they can be set close together and turn outward.

FOR COVERING, set to width desired, and turn inward.

THE RAKES.—For fine cultivation and other uses of an ordinary rake. They can be set angling or straight across.

The depth can be regulated by adjusting wheel arms in the three holes provided on each side of Arch. The depth can also be regulated by pitching the Arch by means of the Arch Brace and the Thumb Bolt, where it connects, to lower Handle Brace.

THE LEAF GUARDS are to prevent wheels from injuring large, spreading foliage.

1 Pair Hoes. 1 Pair Narrow Cultivators.
1 Pair Plows. 1 Pair Wide Cultivators.
1 Pair Rakes. 1 Pair Vine Guards.

Our Retail Price, $5.50
List Price, . . 6.50

Specially designed for working both sides of the row at one passing.

New Universal DOUBLE WHEEL HOE. With Hoe Blades Only.

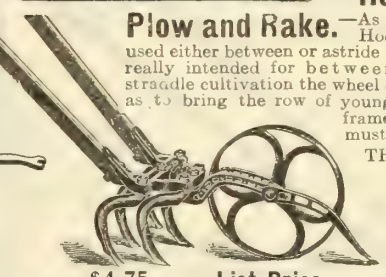
Retail Price..... $3.50 List Price..... $4.25

New Universal Hand Single Wheel Hoe, Cultivator, Plow and Rake.

—As with the Double Wheel Hoe described, this can be used either between or astride the rows, although it is really intended for between row cultivation. For straddle cultivation the wheel can be set to one side, so as to bring the row of young plants under centre of frame. Later cultivation must be done between rows.

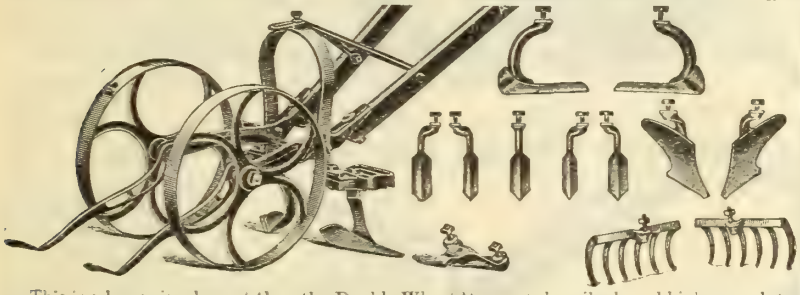
THE ATTACHMENTS ARE:

1 Pair Hoes.
1 Pair Rakes.
5 Cultivator Teeth.
1 Vine or Leaf Guard.
1 Pair Plows.



Retail Price, . . $4.75 List Price, ... $5.75

New Universal High Arch Expansion Wheel Hoe, Cultivator, Rake and Plow.



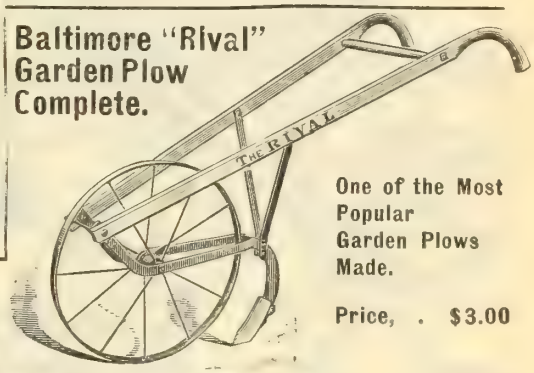
This is a larger implement than the Double Wheel Hoe just described, and high enough to cultivate over twenty-inch plants. Can be used as a One Wheel as well as a Two Wheel See attachments in cut.

List, $9.50 Retail, $8.00

New Universal Hand Single Wheel Hoe.

With Hoe Blades Only.—No. 2.
Retail, . . $2.75
List, . . . 3.25

Baltimore "Rival" Garden Plow Complete.



One of the Most Popular Garden Plows Made.

Price, . $3.00

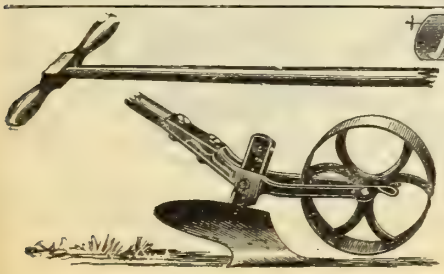
This tool is a universal favorite. The Beam is made of very stiff steel and is constructed so that when handles are attached the centre of weight falls directly over the pivoting point which forms the axle for wheel, making it self-balancing, and which admits of its being propelled with a minimum amount of power. Handles can be raised or lowered to suit man or boy. The different extras used on the "RIVAL" are:—Shovel, Calf-Tongue, Weeder, Mould-board and Rake.

New Universal "Flier" Hand Single Wheel Hoe, Cultivator and Plow No. 2.

Retail Price, $4.25
List Price, 5.00

This implement is same as our regular Single Wheel Hoe, except that at this price fewer attachments are furnished. They are.—1 Pair Hoes, 3 Cultivator Teeth 1 Large Plow. If this style is wanted, be sure and order the "FLIER."

New Universal Hand Wheel Plow.



This can be used to prepare the ground, to furrow out, to cover and to cultivate. The mould board is of steel, polished and tempered.

List Price, $2.50
Retail Price, 2.00

New Universal Draw Plow.

This is the same Plow, and is standard, as used in the NEW UNIVERSAL HAND WHEEL PLOW, fitted with long handle, to be drawn instead of being pushed.

List Price, $2.00 Retail Price, $1.65

Send for Special Implement Catalogue containing Full Description of all New Universal and Matthews' Tools.

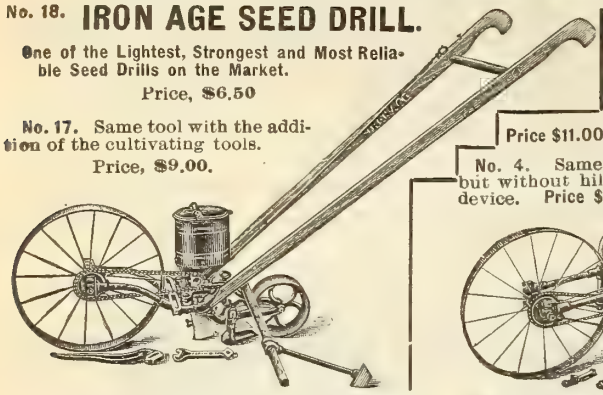
No. 18. IRON AGE SEED DRILL.

One of the Lightest, Strongest and Most Reliable Seed Drills on the Market.

Price, $6.50

No. 17. Same tool with the addition of the cultivating tools.

Price, $9.00.



No. 6. Iron Age Combined Double Wheel Hoe Hill and Drill Seeder.

Price $11.00

No. 4. Same as above, but without hill dropping device. Price $10.00.

Iron Age Hill and Drill Seeder.

No. 8. Price, $10.00.

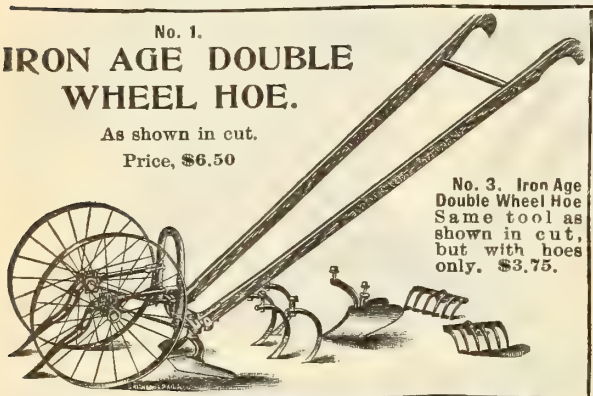
For all gardeners and truckers who require a Seed Drill of large seed capacity. The wheel is made of steel, 15 inches high. The Hopper is low, therefore the delivery of the seed is close to the ground. The agitator is a revolving brush, which absolutely does not injure the seed. The Seeder will sow in continuous rows or drop in hills at 4, 6, 8, 12 or 24 inches apart.

In the **No. 6 Hill and Drill Seeder** is combined a drill seeder with hill dropping device, a double wheel hoe and a single wheel hoe. It sows in drills and drops with perfect accuracy all the seeds varying in size from celery to corn. Will drop in hills at 4, 6, 8, 12 or 24 inches apart.

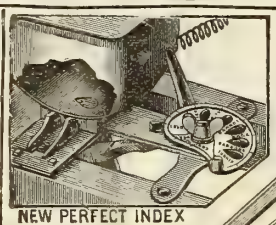
No. 1. IRON AGE DOUBLE WHEEL HOE.

As shown in cut.

Price, $6.50



No. 3. Iron Age Double Wheel Hoe Same tool as shown in cut, but with hoes only. $3.75.



NEW PERFECT INDEX

NEW MODEL SEED DRILL

The Seeder Adjustment in the New Model is accomplished by use of a slide with a pear-shaped opening passing under the bottom of seed reservoir, which is provided with a perforation of similar shape in a reversed position. This size can be instantly adjusted to size indicated by index or to a hair's breadth variation.

The names of the principal seeds are plainly shown on the index. The flow of seed can be instantly stopped by a swinging cut-off. This cut-off prevents all loss of seed.

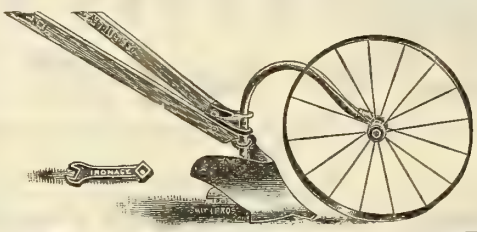
Price, $7.50.

No. 20. IRON AGE SINGLE WHEEL HOE.

Is a steady, strong, light and easy running tool, with attachments as shown in cut.

Price, $5.50.

No. 11. IRON AGE WHEEL PLOW.



A tool needed in every kitchen garden for breaking ground, opening furrows, ridging up, covering and plowing.

Also an excellent tool for poultry men in turning under the droppings in poultry yards.

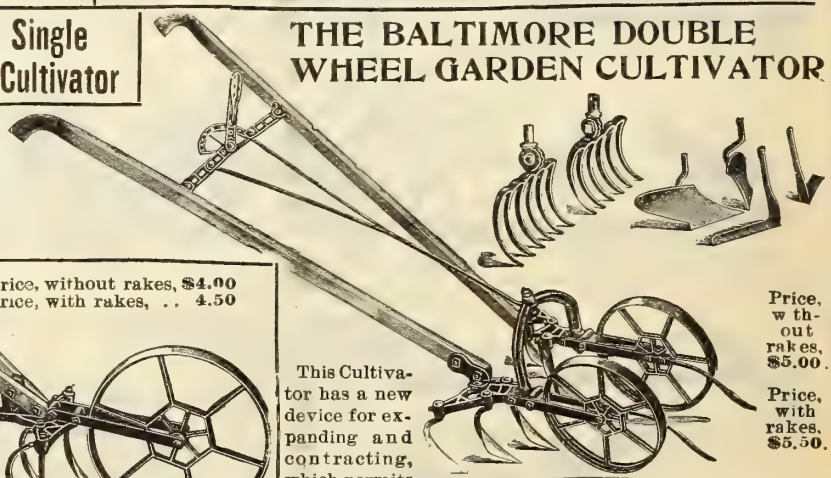
Price, $2.25.

The Baltimore Single Wheel Garden Cultivator

This Cultivator has an entirely new arrangement of frame which is strong, neat and compact, and with the aid of the different attachments, can be used for hilling, furrowing or covering. The hilling attachments or weed cutters can be arranged to hoe in or out and to or from the plants, and can be set at any angle desired. Wheel and handles are both adjustable.

Price, without rakes, $4.00
Price, with rakes, .. 4.50

THE BALTIMORE DOUBLE WHEEL GARDEN CULTIVATOR



Price, without rakes, $5.00.

Price, with rakes, $5.50.

This Cultivator has a new device for expanding and contracting, which permits the operator to set the machine instantly to any desired width. It is furnished with various attachments used for harrowing, furrowing and covering.

Water Carts or Trucks, and Combination

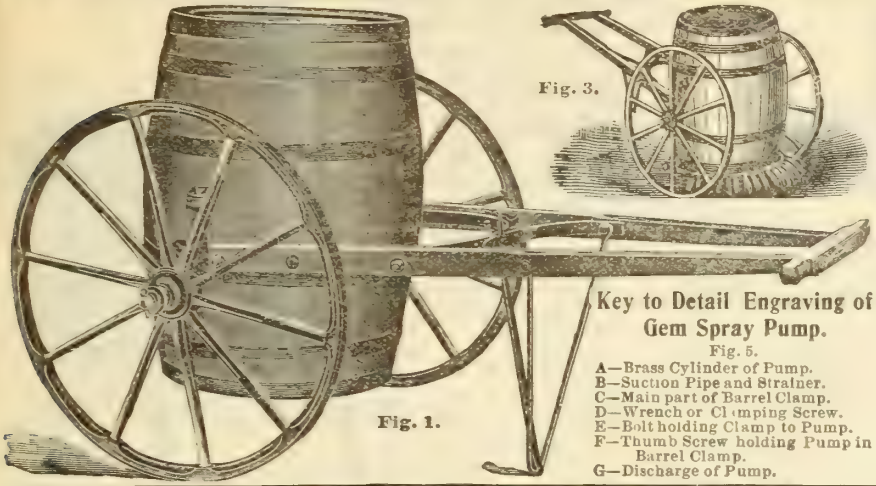


Fig. 1.

Fig. 3.

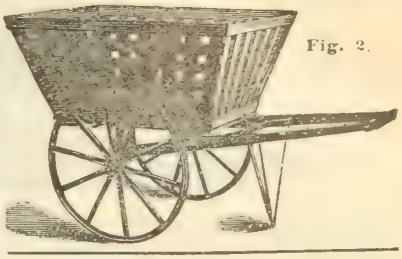


Fig. 2.

Key to Detail Engraving of Gem Spray Pump.

Fig. 5.

A—Brass Cylinder of Pump.
B—Suction Pipe and Strainer.
C—Main part of Barrel Clamp.
D—Wrench or Clamping Screw.
E—Bolt holding Clamp to Pump.
F—Thumb Screw holding Pump in Barrel Clamp.
G—Discharge of Pump.

FIG. 1.—This Fig. represents our Barrel Cart to which can be attached the Gem" Brass Spray Pump. Fig. 5.—This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc.

The Barrel Cart and Pump may be ordered separately and arranged together to suit the purchaser. The Barrel Cart may be wheeled about when filled with water, to supply sprinkling cans for watering flowers and vegetable gardens. When the running gear or truck is ordered without barrel the trunnions may easily be fastened to any good water-tight barrel by any person with ordinary mechanical ability.

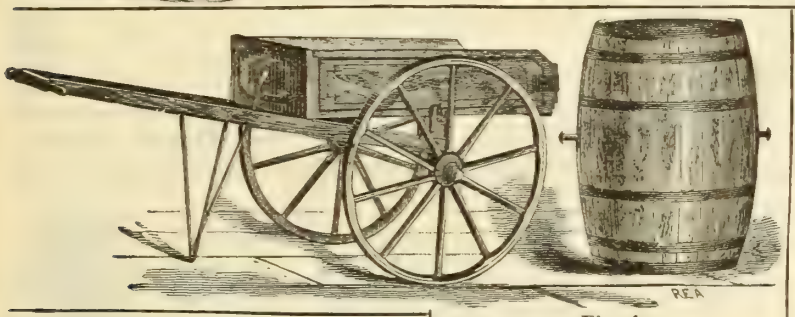


Fig. 4

THIS shows our Sprinkling Cart, which is indispensable about parks, cemeteries and country seats for watering roads, drives, walks, lawns, etc. The wheels have wide tires and the whole outfit is well made. It can also be used as a Tank Cart for carrying water, spraying trees and removing matter from cesspools, vaults, etc. Cart for spraying trees and crops. It is substantially made throughout. There is a valve in the bottom of tank, operated by lever, within easy reach of driver. List, **$90.00.** Retail, **$75.00.**

Fig. 1 shows Truck and Barrel.
Fig. 2 shows Truck with Leaf Rack Attachment.
Fig. 3 shows Truck and Barrel with Sprinkler Attachment.
Fig. 4 shows Truck and Box, with Barrel Detached.
Fig. 5 shows Gem Spray Pump.

PRICE LIST.	List.	Retail.
Water Truck	$10.00	$6.00
Water Truck and Barrel	14.00	8.00
Water Truck and Box	14.00	8.00
Water Truck, Barrel and Box	18.00	10.00
Gem Spray Pump Attachment	9.00	5.00
Sprinkling Attachment	5.00	3.00
Leaf Racks	7.00	4.00
New Barrel	4.00	2.50
Box	4.00	2.50

Trunnions, per pair, 50c.

For 2½ inch Tires on Trucks add to the above price—Retail, **$1.00.**

For 4 inch Tires on Trucks add to the above price—Retail, **$1.50.**

EXTRA TRUCK WHEELS.		List.	Retail.
Regular Tire	Each	$3.00	$2.00
2½ inch Tire	"	4.00	2.50
4 inch Tire	"	4.50	2.75

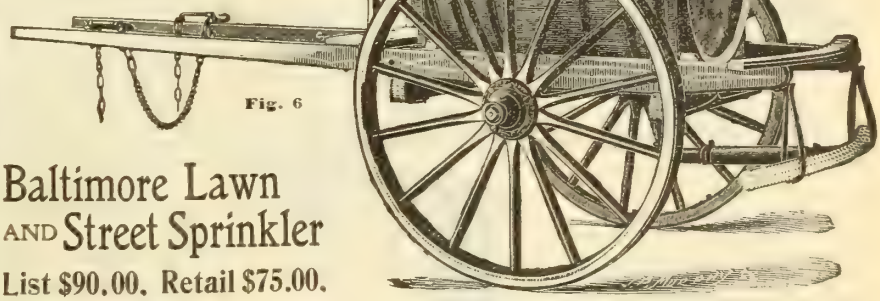
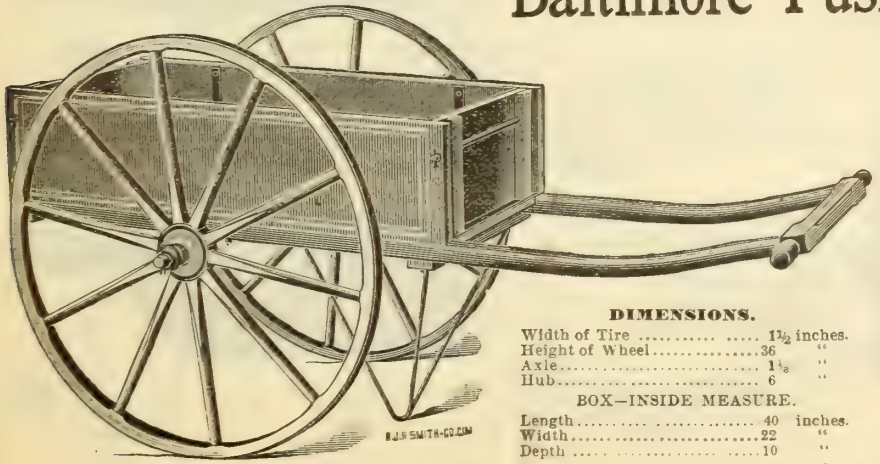


Fig. 6

Baltimore Lawn AND Street Sprinkler

List $90.00. Retail $75.00.

Baltimore Push Cart.



DIMENSIONS.

Width of Tire	1½ inches.
Height of Wheel	36 "
Axle	1⅛ "
Hub	6 "

BOX—INSIDE MEASURE.

Length	40 inches.
Width	22 "
Depth	10 "

Fig. 7

For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these carts, but notwithstanding we have placed the price low.

PRICES.

Retail	$7.50
List	13.50

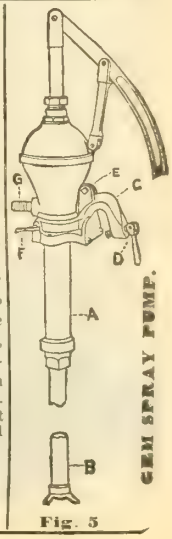
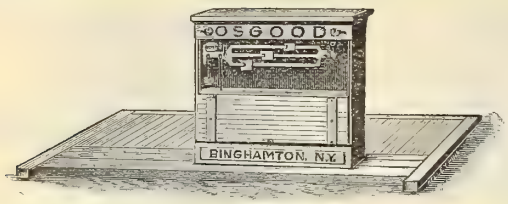


Fig. 5

Osgood's Farm, Stock and Wagon Scales



LEVERAGE.—The levers in this scale are composed of the best trussed tee steel. Each lever is sealed to double its capacity before being put into the scale. They are hung by a single sill hanger and run to the centre of the platform. They are hung by a patent hanger to the fifth lever. This patent centre hanger is so constructed that each lever swings independent of the others and it is impossible for them to bind or interfere with each other.

BEARINGS.—Our patent protected steel lined cushioned bearings are adjustable to the action of the platform, and are protected from dirt and water. The knife edges are composed of the best tool steel, carefully tempered. The loops are forged iron and steel-lined.

BEAMS.—Our beams and poises are made of heavy red brass of the best quality and are highly polished. We make only the triple or combination beam in this platform scale.

INTERCHANGEABLE PARTS.—Every part of the scale is interchangeable, and can be replaced wtih a new part at any time without interfering with the accuracy of the scale.

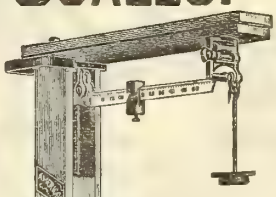
The wall can be built on top of the ground requiring no pit, or with a shallow pit of 6 to 10 inches, or with a full depth pit. Every scale that is capable of weighing five tons has got to have a good strong foundation to weigh accurately and sensitively and keep in order. Everything entering into this scale is of the best material, workmanship and finish.

No.	Tons Capacity.	Size Platform.	Dist. from Edge of Platform to Beam Rod.	List Price. Triple Beam.	Retail Price. Triple Beam.
500	3	8 x 14	2 feet.	$100.00	$50.00
510	4	8 x 14	2 feet.	110.00	55.00
520	5	8 x 14	2 feet.	120.00	60.00
524	5	10 x 16	2 feet.	140.00	70.00
530	6	8 x 14	2 feet.	130.00	65.00
538	6	8 x 22	2 feet.	180.00	90.00
542	6	10 x 18	2 feet.	180.00	90.00

The above described Scale is one of the highest grade made, but there are several cheaper styles made by the Osgood Company about which we will be glad to furnish information if desired.

PORTABLE SCALES.

They are carefully adjusted by competent workmen, and are guaranteed United States Standard Scales. The material throughout is of the best quality, and all pivots are of steel. The brass work is highly polished; the iron work is japanned in black, and the woodwork is finished in its natural color.



600-Pound,
Size of platform.....16x23
Price.....$10.75

800-Pound,
Size of platform.....16x25
Price.....$12.50

1000-Pound,
Size of platform.....17x26
Price.....$15.00

Special Discount For Cash.

SILVER PORTABLE FORGES.

These Forges stand in favor, in point of economy, over the brick forge with leather bellows.

Strong, light-running, durable and stiff, and are the best of this kind. Figure 907 (see cut) and Factory Figure 906 have oblong hearths, but 907 has higher sides to hold more coal. (See cut.)

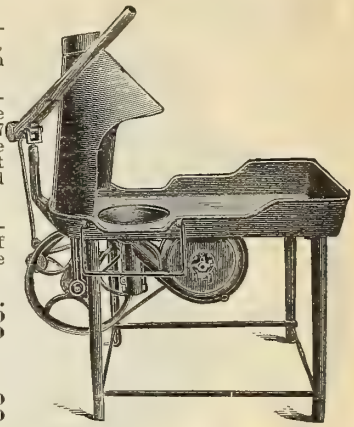


FIGURE 907 (See cut).—Height, 30 inches. Size of hearth, 29½x46 inches. Size fan, 15 inches.

No. 1, Complete, as in cut.
Factory list price...$50.00
Our special retail.... 20.00

No. 1, Same, with Water Tank.
List price.....$55.00
Our special retail.... 22.00

FACTORY FIGURE 906 will heat iron 3 inches in diameter to welding heat. Height, 30 inches. Size hearth, 24x35½. Size fan, 12 inches diameter.

No. 2, with Shield for Outdoor Work.
Factory list price.....$36.00
Our special retail price..... 14.40

No. 2, with Open Hood.
Factory list price.....$40.00
Our special retail price..... 16.00

ADVANCE DRILLS, for Hand Power.

FAST OR SLOW SPEED, SELF FEED.

DESCRIPTION—The automatic feeding device is new and simple, yet efficient and positive. It is located back of the spindle, and is worked by a cam on inside of main gear wheel. This cam is constructed so as to give nearly a continuous feed. By this arrangement the drill does not jam into the work, as is frequently the case in the use of hand drills. The lower column is in nice alignment with the drill spindle and the table is at right angles with it.

DIMENSIONS—Size of spindle, 1 inch; run of spindle, 3 inches; size of column, 1 9-16 inches; greatest distance of spindle to table, 14¼ inches; crank turns 1½ time to 1 turn of spindle on slow speed; drills to centre of 15-inch circle and up to 1¼-inch holes; spindle bored for ½-inch round shank drills, unless otherwise ordered.

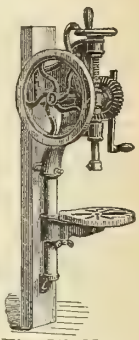
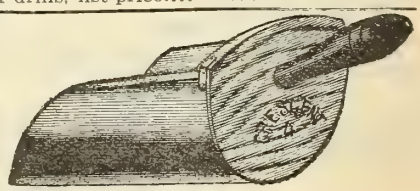


Fig. 742, No.12.

SIZE AND PRICE.

FIGURE 742, NO. 12.—Weight, 125 pounds.
List price.....$10.00
Retail price..... 8.00
Chuck for bit stock drills, list price.... 1.00

Crescent Galvanized Steel Scoops.

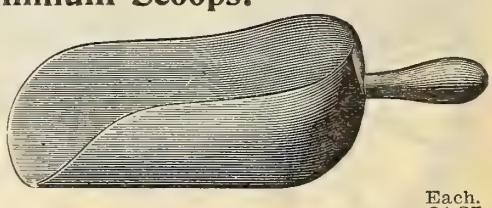


FOR SUGAR AND SALT.
Siemens Steel, Extra Galvanized, Non-Corrosive.
HARD MAPLE HEADS AND HANDLES.

No. 3—Capacity, 2¼ pounds..... 30c.
No. 4—Capacity, 3½ pounds..... 35c.
No. 5—Capacity, 4½ pounds..... 40c.

Cast Aluminum Scoops.

MADE OF PURE ALUMINUM
CAST IN ONE PIECE.
LIGHT AND
CONVENIENT.
ABSOLUTELY
INDESTRUCTIBLE.



	Each.
No. 1—Size, 4 x 11 inches	$1.25
No. 2—Size, 5 x 12 inches	1.50
No. 3—Size, 5½ x 14 inches	1.75
Per set	$4.50.

BALTIMORE CEDAR WASHER.

ELECTRIC WELDED WIRE HOOPS.

PRICE, $4.00.

THE Baltimore Washer is constructed of the best white cedar, very strong, nicely finished and is one of the largest round Washers on the market. Round, electric-welded hoops of extra heavy galvanized wire, fitted in a groove around the machine, which prevents them from dropping off. The Baltimore is supplied with improved gearing, and all the castings are japanned. The inside is fully corrugated, similar to a washboard, having no nails or block of any kind. The bottom and sides are corrugated; in others the corrugation runs only the length of the staves, thus making crevices for dirt and allowing the steam to escape through the top and water to leak through the bottom. The bottom of the tub is larger than the top, allowing plenty of room for water and clothes. In this machine is placed a square galvanized iron rod fastened firmly to the dolly.

Instead of using a square wooden post to work the dolly (that is, the circular wooden revolving head that holds the clothes in position), in this machine is placed a square galvanized iron rod fastened firmly to the dolly. This whole arrangement can be lowered or raised by the operator without removing the tops, and it will also accommodate itself automatically to the quantity of clothes, rendering it impossible to tear the most delicate fabric, as this offers nothing to which the clothing can catch.

OUR SPECIAL PRICE.. **$4.00**

ORIOLE CEDAR WASHER.

THE ORIOLE is precisely the same in construction as the Baltimore, described above, and while made of cedar the wood is not selected with the same care.

While the Baltimore is finished in natural wood, the Oriole is painted.

We recommend it as a first-class machine for the money.

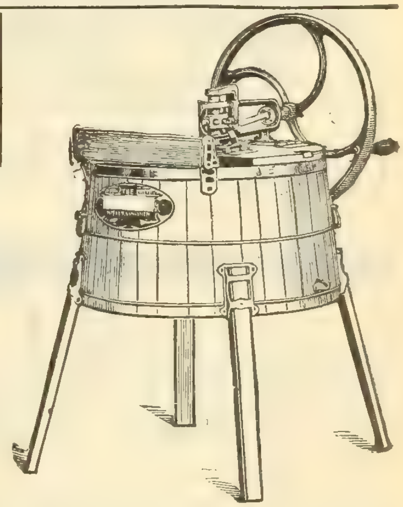
OUR SPECIAL PRICE.. **$3.75**

THE MARYLAND WASHER.

To meet the demand for a low-priced Washer, we offer the Maryland, which is made of pine instead of cedar, but in all other respects is the same as the Baltimore Cedar, shown above.

OUR SPECIAL PRICE.. **$3.50**

Griffith and Turner Improved Cedar Rotary Washer No. 2.

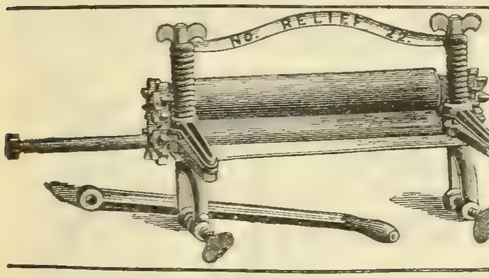


ELECTRIC WELDED WIRE HOOPS.

IT IS A FACT unquestionable that white cedar is the only wood known that successfully resists the action of water, as, witness, white cedar shingles and posts oftentimes last for a hundred years. Ninety per cent. of the washtubs used are made of cedar because they are preferred. That being the case, why should not cedar washing machines also?

This is the lightest-running and easiest-working washing machine made. Roller bearings; no friction. Works in both directions. Very simple; nothing to get out of order. The tubs are made of selected VIRGINIA WHITE CEDAR, and are nicely corrugated on sides and bottom. The hoops are made of galvanized wire, and are welded by electricity. These are much stronger than the old-style flat hoops, and CANNOT DROP OFF, being sunk in grooves.

OUR SPECIAL PRICE.. **$7.00**



RELIEF WRINGER.

IRON FRAME. THE FRAME IS MADE ENTIRELY OF WROUGHT AND MALLEABLE IRON.

By the use of the thumb-nuts and spiral springs in this Wringer the pressure can be adjusted quickly for either heavy or light work; therefore the rolls are never overstrained, and will wear much longer than the ordinary iron-frame Wringer. With cog wheels. Five sizes. Packed four and six in a case.

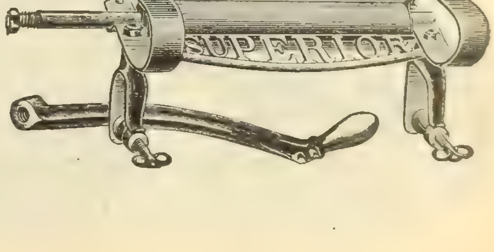
No. 330.—SMALL FAMILY.
Size of Rolls, 10x1¾ in. Price................**$2.50** Rolls, each.........**$1.25**

No. 332.—LARGE FAMILY.
Size of Rolls, 12x1¾ in. Price................**$3.00** Rolls, each.........**$1.50**

SUPERIOR WRINGER.

We also carry a stock of the following well-known Iron Frame Wringers—

Name.	Size of Rolls.	Price.
Superior	10x1¾ in.	**$2.25**
Superior	12x1¾ in.	**2.75**
Star	10x1¾ in.	**1.50**
CRESCENT.—Same style as Relief, but cheaper grade rolls.		
No. 130	10 inch	**2.00**
No. 132	12 inch	**2.50**
EXTRA ROLLS—		
Superior	10 inch	**1.00**
Superior	12 inch	**1.25**
Cheaper grade	10 inch	**.80**
Cheaper grade	12 inch	**1.00**



Broadcast Hand Seed Sowers.

For Sewing Clover, Timothy, Millet, Oats, Wheat, Hemp, Barley, Rye, Rice, Buckwheat, Etc. A Model for Accuracy and Durability.

PRICE, $3.50

Sows from 4 to 8 acres per hour at an ordinary walking gait, throwing wheat about 40 feet wide. A saving of four-fifths of the labor and one third of the seed is effected by the use of this machine, and a person entirely unused to sowing by hand can use it with perfect success.

TO SOW THICKER OR THINNER WITHOUT CHANGING THE SLIDE.—Having set the index to the desired quantity per acre—taking the average of the field—the operator can easily sow a little thicker upon those places where the soil is richer, by taking shorter steps and thus not going so fast, and upon the poorer spots of ground it can be sown thinner by taking longer steps and consequently passing more rapidly forward.

ABOUT SOWING IN THE WIND.—Any one familiar with the use of the machine can sow satisfactorily in a much stronger wind than will admit of sowing well by hand; but as the ordinary work of a day can easily be done with the Sower in two or three hours, that time may be chosen early in the morning or late in the evening, when it is usually calm or nearly so.

FOR SOWING IN STANDING CORN the machine will be found of the greatest utility—nothing can ever equal it for this purpose—but will not sow as wide as on fallow ground, in consequence of the obstruction which the cork offers to the seed. A broader lap is therefore required by making the passages nearer together. (See directions).

The breadth of the cast will be according to the weight of the seed.	Wheat and Rye, 30 to 36 feet.	Oats, 21 to 25 feet.
	Barley, 27 to 33 feet.	Clover, Millet, Hungarian Seed, 20 to 24 feet.
	Hemp, 27 to 30 feet.	Timothy, 15 to 18 feet.

DIRECTIONS FOR GAUGING THE MACHINE.

The large gate is to be used when sowing grain and the small gate in the larger one for grass seed only. First close the slide or gate tight, then fix the lower edge of the index point against the scale of inches on the slide for the different seeds as follows:

FOR WHEAT AND RYE.—To sow two bushels to the acre, at 1 inch. To sow one and a half bushels to the acre, at ¾ of an inch

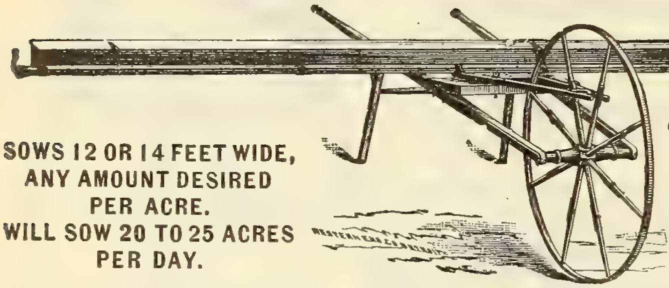
FOR BARLEY.—To sow two bushels to the acre, at 1 inch. To sow one and one-eighth bushels to the acre, at ¾ of an inch.

FOR HEMP.—To sow one bushel to the acre, at ½ an inch. To sow one and a quarter bushels to the acre, at ⅝ of an inch.

FOR OATS.—To sow two bushels to the acre, at 1½ inches. To sow one and a half bushels to the acre, at 1¼ inches.

When ready to sow, first commence turning, and with the left hand raise the slide until the nib on the slide comes against he index point. Be careful to walk and turn, as above directed. To close the slide, do it with a quick pressure of the left hand. To sow wheat or rye in standing corn, two bushels to the acre, set the index at ⅝ of an inch and sow five or six rows at a time, according as they are wide or narrow. FOR GRASS SEED.—To sow one peck of grass seed to the acre, raise the small gate ⅜ of an inch; half a bushel, ⅝ of an inch.

Thompson's Clover and Grass Seeder.



SOWS 12 OR 14 FEET WIDE, ANY AMOUNT DESIRED PER ACRE. WILL SOW 20 TO 25 ACRES PER DAY.

This Grass Seeder is simple, without gearing, cams or intricate machinery. It cannot get out of order. It is strong, yet weighs but forty pounds. Perfection feed is attained in making it absolutely positive, yet a non-leaking carrier when thrown out of connection. The quantity of seed to the acre is accurately shown by the index plate. You place the pin, the machine measures the seed. Clover, Timothy, Red Top, Hungarian, Millet, Flax, Orchard Grass, Fancy Blue Grass, Alsike and chaffy seeds are alike sown by it. It cannot clog. The wheel may be covered with mud, yet its working will not be affected. Working near the ground, even strong winds have no effect upon its accuracy. A Manilla rope passes through a groove in the bottom of the box, fastened at the ends to a rod moved back and forth by a lever. This is operated by the revolution of the wheel, upon each of the eight spokes of which is fastened a casting. These castings strike alternately V-shaped irons on the feed levers. The length of stroke governs the quantity of seed sown, and is regulated by the pin, which forms a fulcrum at any distance desired from the driving point. The plate for this pin is accurately marked in figures, indicating the quantity of seed sown per acre. By use of a thumb-screw the lever can be thrown out of connection, when a l sowing stops, the feed rope covering the holes in the bottom of the hopper, through which, when at work, it forces the seed. Manilla rope is used because it is better than wire or any substitute. It does not wear the groove, bruise the seed, or fail in its work—wire rope will. Being scorched and chemically treated, our rope is weather-proof. It is provided with an iron wedge at one end of the feed rod, so that it may be loosened when not in use.

No. 1—Complete Clover and Grass Seeder, the most popular style........ $6.00
No. 2—Complete Seeder, with Double Hopper and Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover........ 8.00

The Cyclone Hand Broadcast Seed Sower.

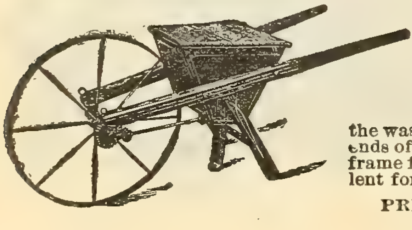
This Seeder is accurate, strong, light and durable. The best medium-price machine of its kind on the market.

PRICE **$1 50**

Chicago Seeder.

A good Seeder, at a very low price. This is the most satisfactory Bow Seeder made.

PRICE **$1.25**



Baltimore Pea and Fertilizer Drill.

The agitator is new, being of steel in the form of two knife-shaped arms sweeping around under the mass of the fertilizer and throwing it upon the revolving disc below. A shut-off has lately been added, whereby the waste of fertilizer is stopped when turning at ends of rows. As shown in cut, loops are bolted to frame for the purpose of attaching a horse. Excellent for sowing foduer corn or ensilage.

PRICE **$6.00**

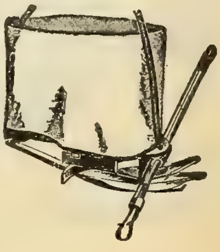
Champion Jr. Seeder

A MODERATE PRICE MACHINE.

The accompanying illustration shows our CHAMPION JR. SEEDER, a moderate price machine.

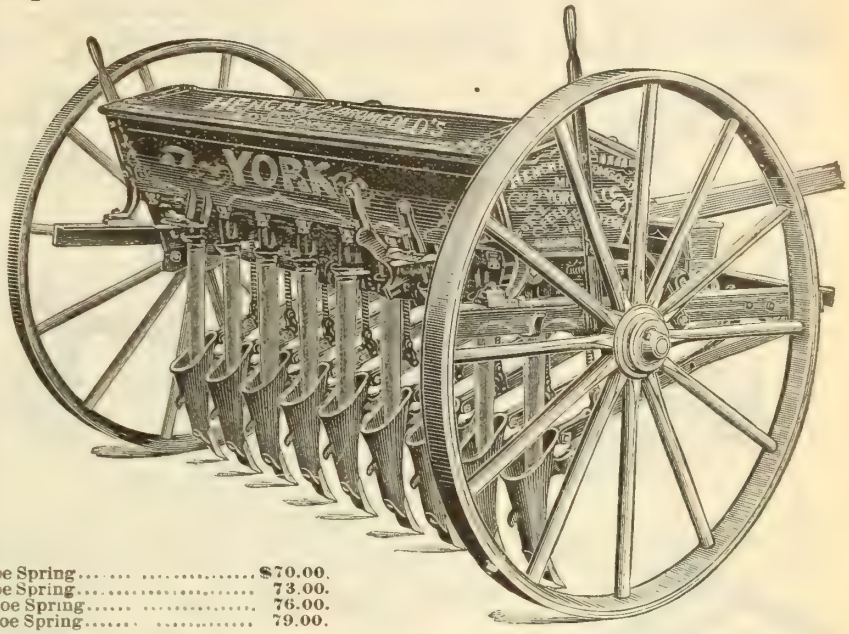
GUARANTEED equal to any other make on the market.

PRICE **$1.00**



Grain Drills, Tubes and Points.

The York Feed, Grain and Fertilizer Drill.



BOTH the grain and fertilizer are positive force feeds, and will sow with absolute regularity any kind of grain or fertilizer in good condition. The grass seeder is also a force feed and can be used either in front or rear of the hoes; also the quantity can be changed to any amount necessary. It is fastened on the frame and very low down, thus preventing the wind from blowing the seed away before reaching the ground.

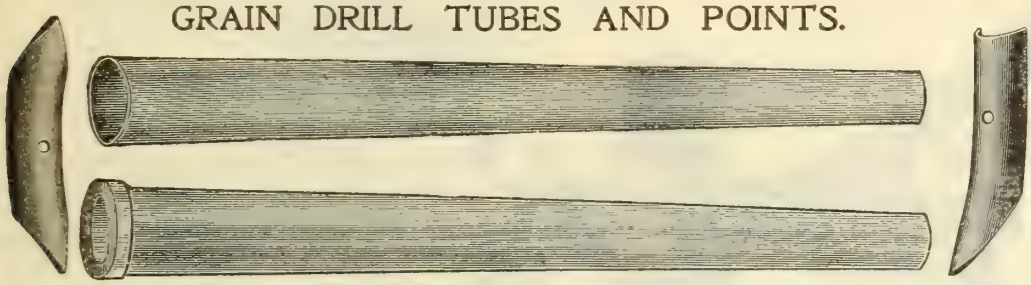
Two levers are used on this drill—one for grain feed and one for fertilizer feed, and by simply moving them either back or forward the indicators, in plain view, will guide the operator, and enable him to accurately sow the desired quantity per acre; in using the fertilizer feed the operator must be governed by the condition of the material. The quantity of grain to be sowed can by this means be varied from the smallest to the greatest amount desired, varying as little as a half to a pint at each change. The fertilizer feed can be stopped or started at any time while the drill is in motion, which makes it convenient in case the operator does not wish to sow fertilizer while going over good ground.

These drills will be furnished either in pin or spring hoe, or with discs, as well as hoes, as shown in cut.

8-Hoe Pin	$65.00.	8-Hoe Spring	$70.00.
9-Hoe Pin	68.00.	9-Hoe Spring	73.00.
10-Hoe Pin	71.00.	10-Hoe Spring	76.00.
11-Hoe Pin	74.00.	11-Hoe Spring	79.00.

☞ SPECIAL PRICES FOR CASH.

GRAIN DRILL TUBES AND POINTS.



We are one of the Largest Distributors of

Grain Drill Points and Tubes

IN THE COUNTRY.

For all leading Grain Drills, including York, Superior, Pennsylvania, Bickford & Hoffman, Buckeye, Hoosier, Indiana, Champion, Empire, McSherry, Hagerstown, Greencastle, etc.

IN ordering Tubes it is always best to send an old Tube as a sample; if that cannot be done, be sure to state name of Drill, the kind of Tube, whether with ring, flange or plain top, or special bell-shaped top with straps, and by all means the length and diameter at top and bottom. Also with regard to points, either send an old one or give name of Drill, length of point, and be sure to give distance from centre of hole to end of point. It is always best, if possible, to send an old sample. If our customers will carefully comply with the foregoing directions, it will be a mutual saving of an immense amount of time.

Price, Plain Tubes.....20 cents each. **Bell Top Tubes**.....30 cents each. **Price, Points**.....10 cents each.

The Thomas Disc Fertilizer Drill.

THE celebrated "Marks" Fertilizer Feed is used on this Drill. The device for changing quantity is entirely new and has been thoroughly tested, and consists of a simple speed gear direct and adjustable mounted on the axle. The flow is stopped automatically when the discs are raised. When spotting shocks in sowing corn ground, can be thrown out of gear without raising the discs.

DISC BOOT.—Our Delivery Disc Boot is specially designed, and very complete and prevents choking or clogging in any soil. There is a chilled iron spindle, which will last for years if it will ever wear out. The scrapers for discs are of spring steel, and are adjustable.

8-Disc Drill	$75.00	10-Disc Drill	$85.00
9-Disc Drill	80.00	11-Disc Drill	90.00

Special Prices for Cash.

We also carry the celebrated THOMAS SPRING OR PIN-HOE FERTILIZER DRILLS.

Spring and Pin Hoe.

Spring Hoes, in the place of Pin Hoes, are furnished, if desired, at a small extra cost. They are especially adapted to rough, stony or rooty ground. The spring is strong and effective. In case of breakage of spring, anyone can quickly make a pin of wood, and go on seeding.

8-Hoe Pin	$65 00	8-Hoe Spring	$70.00
9-Hoe Pin	70.00	9-Hoe Spring	75.00
10-Hoe Pin	75 00	10-Hoe Spring	80.00
11-Hoe Pin	80.00	11-Hoe Spring	85.00
12-Hoe Pin	85 00	12-Hoe Spring	90.00

SPECIAL PRICES FOR CASH.

Corn Planters

HENCH & DROMGOLD'S CORN PLANTERS.

Steel Frame Single Row Planter, With Fertilizer Attachment.

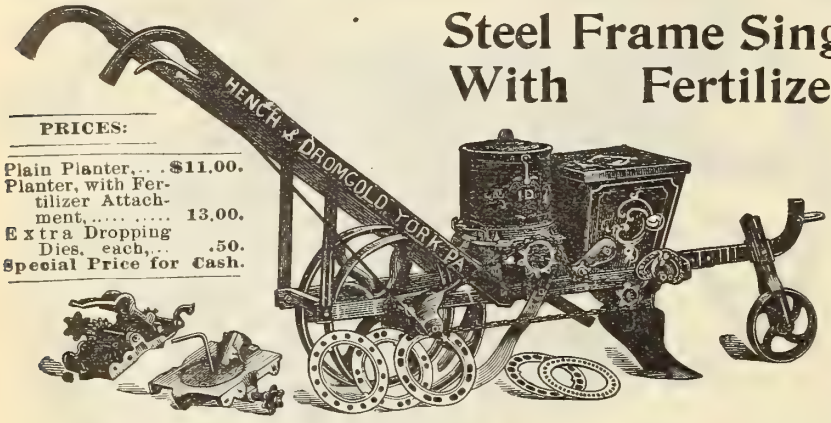


FIG. 28 B.

PRICES:

Plain Planter,	$11.00.
Planter, with Fertilizer Attachment,	13.00.
Extra Dropping Dies, each,	.50.
Special Price for Cash.	

Made In Three Styles.—First, as shown in cut, with double wheel in rear, Fig. 28 B; secondly, with concave wheel in rear, Fig. 27; thirdly, with concave wheel in rear and runner in front, Fig. 28. All can be furnished with or without fertilizer attachment.

The Corn-Dropping arrangement is very simple and positive in action.

The Fertilizer Sower has an agitator which prevents the fertilizer from arching in the box, and will sow regularly any quantity from 100 to 400 lbs. per acre.

Four Rings or Dropping Dies are furnished with each Planter; two with small, and two with large holes, dropping one grain at a place and equal distance apart, and two with large and two with small holes, for dropping two grains in a hill.

Three Chain Wheels are furnished with plain Planter, and four with fertilizer. The six-point chain wheel drops one grain 13 inches or two grains 26 inches apart. The seven-point drops one grain 15 inches, or two grains 30 inches apart. The eight-point wheel drops one grain 17 inches or two grains 34 inches apart. The nine-point wheel drops one grain 19 inches, or two grains 38 inches apart. We can also furnish rings for planting Peas, Beans, Ensilage, Corn or any kind of seeds, and by using the different chain wheels can plant any desired amount.

Single Row Planter With Shoe.

PRICES SAME AS FIG. 28 B.

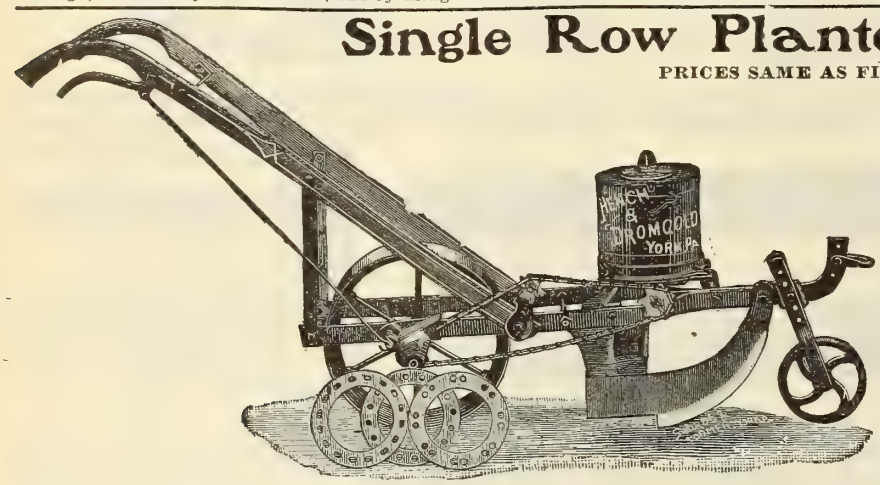


FIG. 28.

The annexed cut illustrates our Single Row Corn Planter with shoe for opening furrow in soft, mellow soil. This is preferred by many over the other styles. We furnish this Planter when ordered at the same price, either with single concave wheel or with double wheels, as shown in Fig. 28 B. In ordering the Planters please state the figure as well as name, and whether wanted with double concave wheel.

In all of these Planters the top part of corn-box is made of heavy sheet-iron, riveted to a cast ring which is hinged to the bottom, and by loosening one thumb-nut, can be turned to the side and the rings changed, and the bottom cleaned out nicely.

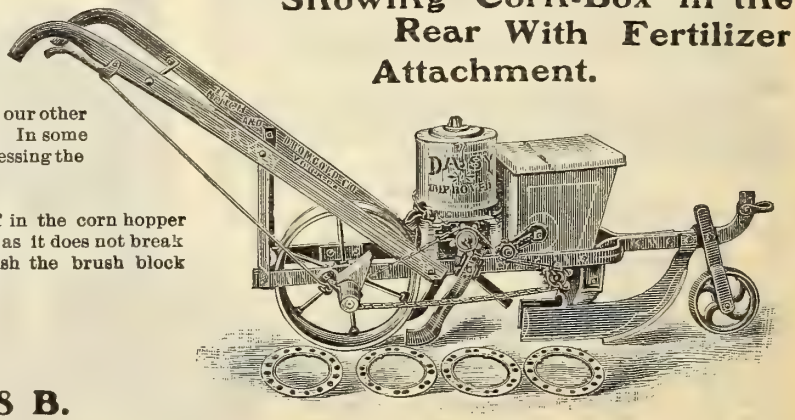
On all machines where fertilizer attachments are used the fertilizer box sets lower on the frame, has less number of pieces, less complicated and the most positive force feed of any Planter on the market; insures uniform distribution, whether dry or damp. Will sow from 20 pounds to 450 pounds per acre, and if a larger quantity is wanted, use the five-point chain wheel and it will sow 525 pounds per acre.

NOTE.—If the rows are marked out closer than three feet six inches, it will sow more per acre.

SINGLE ROW PLANTER

THE CUT represents our Single Row Corn Planter with corn-box in rear and is sold largely in some sections.

Showing Corn-Box in the Rear With Fertilizer Attachment.

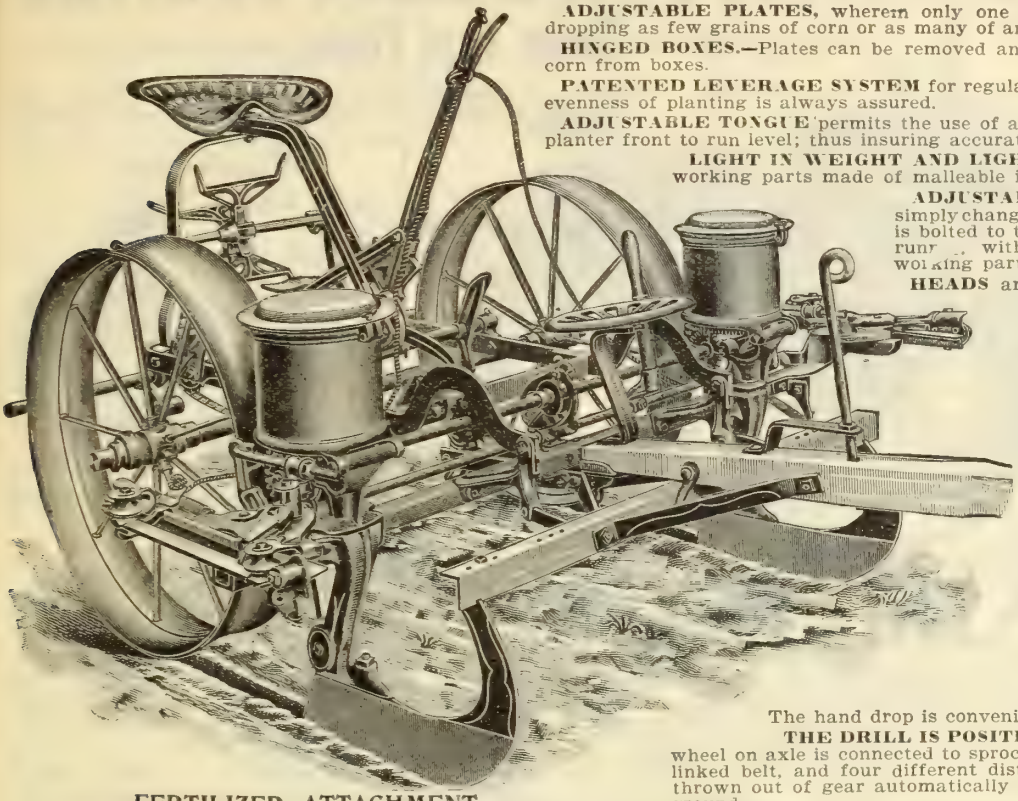


It has the same dropping device and fertilizer feed as our other Planter. We furnish them with double or concave wheel. In some sections the concave wheel is preferable for rolling or pressing the ground down on the corn.

All the Planters we make have the spring trip cut-off in the corn hopper instead of the brush. This is preferable to the brush, as it does not break any corn, and is more durable. We, however, can furnish the brush block with any of the Planters if so ordered.

Same Price as Fig. 28 B.

UNION VICTOR CORN PLANTER.



ADJUSTABLE PLATES, wherein only one set of plates is required for dropping as few grains of corn or as many of any size as desired.

HINGED BOXES.—Plates can be removed and adjusted without removing corn from boxes.

PATENTED LEVERAGE SYSTEM for regulating depth of runners so that evenness of planting is always assured.

ADJUSTABLE TONGUE permits the use of any sized team and allows the planter front to run level; thus insuring accurate checking.

LIGHT IN WEIGHT AND LIGHT IN DRAFT.—All principal working parts made of malleable iron, so there is no breakage.

ADJUSTABLE to different widths by simply changing two bolts where the shank is bolted to the frame and one at point of runner, without disturbing any of the working parts.

HEADS are made of steel, are adjustable and have four rollers on each, which reduces the friction on wire to a minimum.

RUNNERS may be taken off, as a spool is riveted in heel of runners and is held onto shank by a heavy hooked bolt.

ONE DOG in centre of planter, and in plain view of the operator, with the aid of a plunger stop, revolves the seed shaft one-fourth at every stroke of the check arm and as this shaft is directly connected to the plates by a gear, it is impossible to miss.

A COMBINED PLANTER and easiest to change to any known style of drop on the market.

THE FOOT TRIP is handy and always ready for use. The hand drop is convenient.

THE DRILL IS POSITIVE AND SIMPLE.—Sprocket wheel on axle is connected to sprocket wheel on feed shaft by a linked belt, and four different distances may be planted. It is thrown out of gear automatically when planter is raised out of ground.

THE WIRE IS AUTOMATICALLY THROWN OFF when planter is raised or may be thrown off by pulling a string which is attached to the hand lever. Flat, open, or concave wheels are furnished as desired. We furnish special drill plates for any kind or size of grain when ordered; also a self-guiding automatic reel.

PRICES.

Planter, plain	$32.50
Planter, with Fertilizer Attachment	42.50
Check Rowers, with eighty rods of wire	8.50

FERTILIZER ATTACHMENT.

The celebrated **Marks Feed** is used on the Fertilizer Attachment, which is a positive **Force Feed.** This machine is made to throw in or out of gear without stopping the team or disconnecting the corn-planting device. The material can be dropped in hills or drills continuously; quantity can be easily regulated.

Nagley's Transplanting Machine. Price, $55

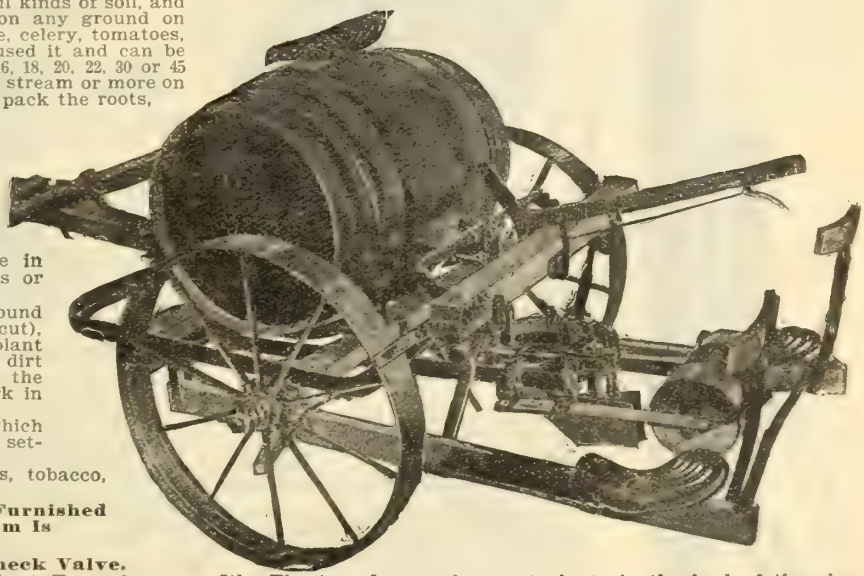
This Transplanter has been fully tested on all kinds of soil, and can be operated and worked satisfactorily on any ground on which you wish to transplant tobacco, cabbage, celery, tomatoes, etc. It is indispensable to those who have used it and can be operated so that plants can be transplanted 16, 18, 20, 22, 30 or 45 inches apart, or other distances, with a ¾-inch stream or more on the roots of the plants. The covering rollers pack the roots, leaving the dry dirt around the stalk or heart of the plant; thus the roots are kept moist a number of days without danger of baking. It is also a great labor-saving machine, especially in showery weather, as it only takes two boys and driver to plant from four to six acres a day with it. The machine carries a cask of water which will water 1,200 plants, which, with proper care in transplanting, will live except where worms or other insects destroy them.

In front of the plow which works in the ground there is an adjustable cleaner (shown in cut), which cleans away from in front of the plant (being set) the loose stone and lumps of dirt which otherwise might be packed around the roots or stalk of the plant; thus it will work in stony ground as well as any other.

The roller packers roll over obstacles which shoes would drag along and interfere with setting the plants.

Some use them for planting corn, potatoes, tobacco, cabbage, etc.

Our Automatic Check Valve Device Is Furnished If Desired. But A Continuous Stream Is Always Recommended.

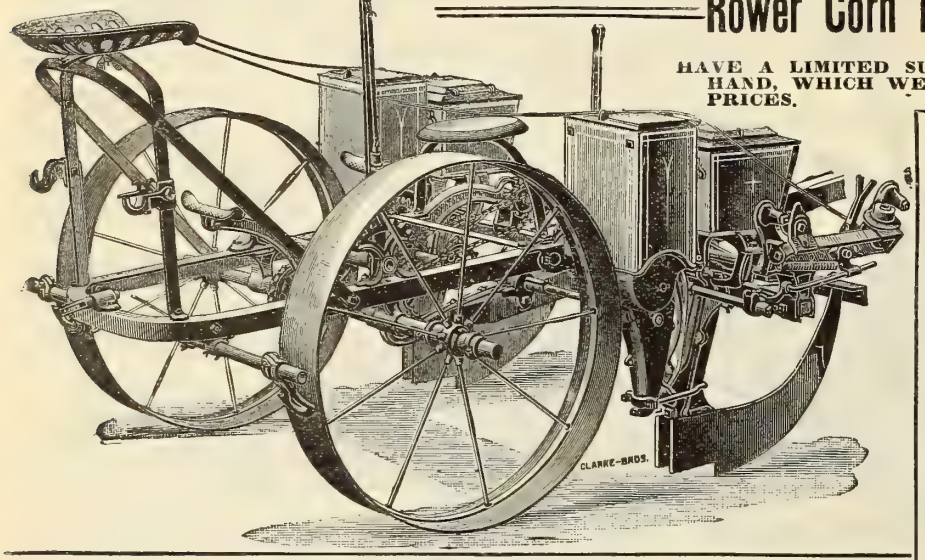


DIRECTIONS.—Keep Heavy Oil on Check Valve.

1st. Use martingales or breeching when hitching to Transplanter.
2d. Prepare your ground in good condition.
3d. Regulate the pressure irons so that the right pressure is attained on loose or heavy soil. The raising or lowering the rollers regulates the depth the plow should run in the ground.
4th. Adjust the footrests for the dropper boys' comfort.
5th. The two dropper boys set plants in the heel of the plow alternately.
6th. Drive horses slow and regular, and in a short time the boys can do good work.
7th. If you have long and short plants, transplant the long ones, then lower the packers for the short ones.
8th. The water is regulated by turning the upper faucet.

WITH FERTILIZER ATTACHMENT.

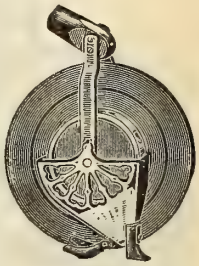
The Evans Steel Frame Combined Drill and Check-Rower Corn Planter.



HAVE A LIMITED SUPPLY OF THESE PLANTERS ON HAND, WHICH WE ARE CLOSING OUT AT SPECIAL PRICES.

EUREKA DRILL.

Have You a Hot-Bed



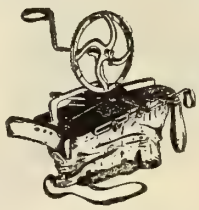
It's the only machine suited to sow in a hot-bed.

Sows up close to the sides in very straight rows.

Sows the smallest packet of seeds as well as a large bulk.

Price.....**$1.00**

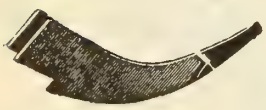
NATIONAL BROADCAST SEED SOWER.



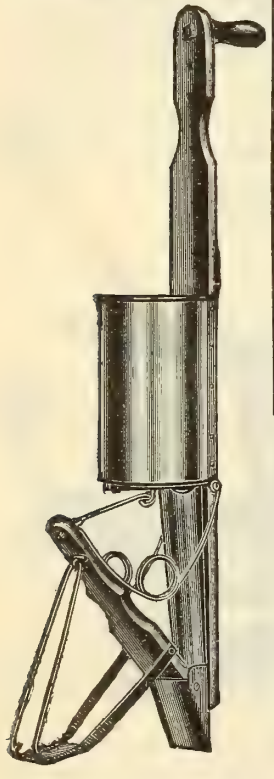
It will sow wheat, rye, oats, rice, flax, millet, turnip seed, clover seed, grass seed, including light grasses; in fact, all kinds of seed, broadcast. Also plaster, fertilizer, salt, ashes, etc.

Price.....**$1.50**

CORN PLANTER RUNNERS.



We are headquarters for Corn Planter Runners made to fit the following named styles: Evans, Farmer's Friend, Hamilton, Barlow, Richmond Champion, Hench & Dromgold, Keystone, Jr., U. S., Black Hawk, Challenge, etc. In ordering Planter Runners always state, as near as possible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole and style of bend. Price, per pair.....**$3.00**



Check-Rower Wire.

Carry in stock 3 ft. 6 in. and 3 ft. 8 in.

Price per rod.....6c.

"PEERLESS" Hand Potato Planter.

THE PEERLESS IS THE LIGHTEST TUBULAR PLANTER MADE.

Its spring-closed jaws are especially designed to enter the soil easily, yet open wide enough to drop the largest seed.

The dropping lever or dump is adjustable for any depth of planting. It is braced to avoid bending, and has a broad, flat bottom, well adapted to the soft soils for which the Planter is intended.

The conveyor tube is galvanized iron.

DIRECTIONS FOR USING.

Walk erect—plunge planter into the soil—press forward as you withdraw it—seed is left in **moist** soil, not dry as is usually the case when seed is dropped by one man and left to be covered by another.

Price.....**$1.00**

The Gordon Automatic Hand Corn Planter.

ITS ROTARY SLIDE has a motion two ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the corn and back into the conveyor tube.

This motion is positive. It breaks up all bridging, and fills the pocket uniformly—it counts the kernels for each drop.

THE IRON STRIPPER will not wear out or break. It prevents an overdose of corn, and will not crack a kernel. The entire dropping device is made of iron, held together by three bolts. All parts are easily accessible and readily adjusted.

THE HOPPER IS IN LINE WITH THE CENTRE. There is a double-coil spring on each side, and the Planter hangs well in the hand. The material is all the best. The Planter is finished with a selected hardwood frame, finished bright, a brilliantly painted hopper and all parts varnished. Price.....**$1.50**

McWHORTER POTATO PLANTER.

No. 1—With Fertilizer Attachment.....$75.00
No. 2—Without Fertilizer Attachment..... 65.00
Fertilizer Attachment..... 10.00

THE GROUND OPENER works independently of the body of the Planter, and adjusts itself perfectly to the formation of the field The Fertilizer Attachment has a capacity to distribute any amount of fertilizer up to a ton or more per acre and to spread it any required width from 4 to 30 inches.

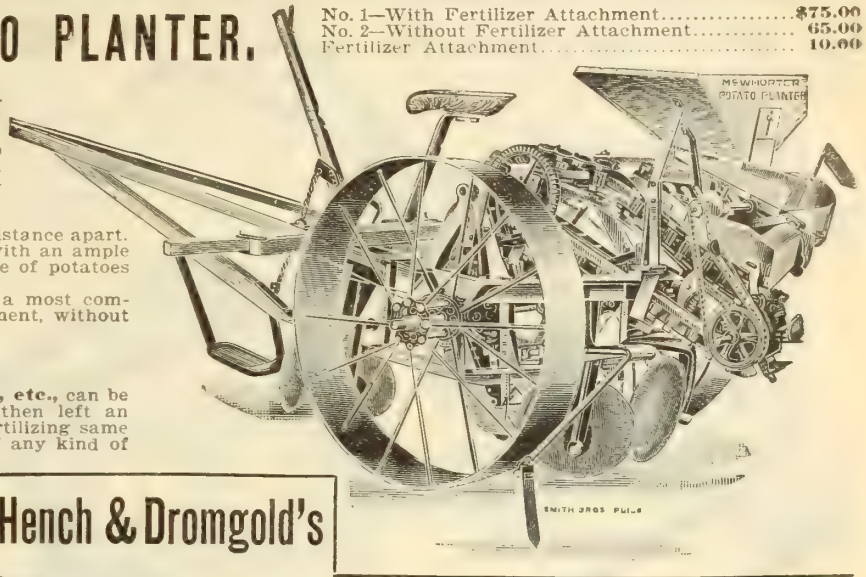
Potatoes are **placed** evenly any required distance apart. Two keen large discs cover the potatoes with an ample quantity of earth, and in fine form, the line of potatoes being exactly in the centre of the list.

The marking of the next row is done in a most complete and convenient way, all by one movement, without any loss of time or inconvenience.

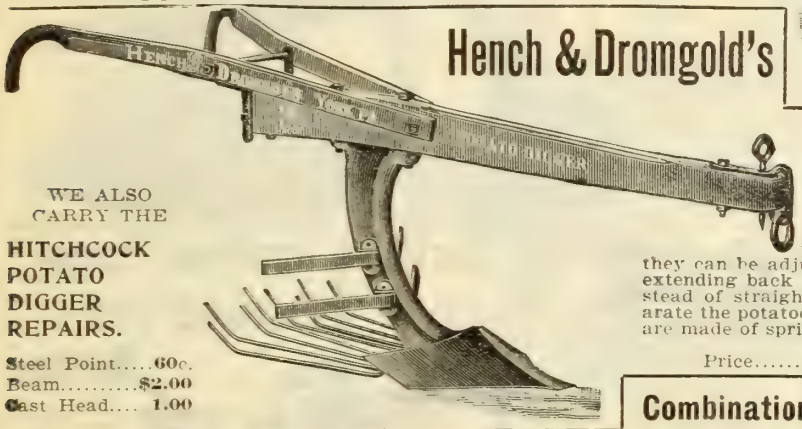
The Lightest Draft is Insured.

AS A LISTER.

All the **potato-planting device, hopper, etc.,** can be readily and easily removed, and there is then left an admirable machine for opening a furrow, fertilizing same and making a list, ready for the planting of any kind of seed or setting plants.



Hench & Dromgold's POTATO DIGGER.



WE ALSO CARRY THE

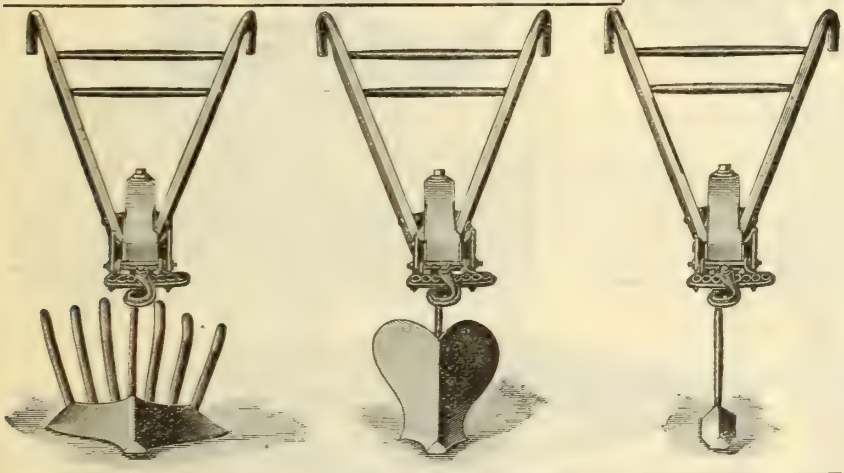
HITCHCOCK POTATO DIGGER REPAIRS.

Steel Point.....60c.
Beam.....$2.00
Cast Head.... 1.00

The sandards are made of cast iron, having on a highly polished steel share. The side or wing pieces to the standard are bolted with a ratchet, by which they can be adjusted to stand up or down as desired. The fingers extending back from the standard are made in a zig-zag form, instead of straight, as shown in cut, on account of which they separate the potatoes from the ground better than straight ones. They are made of spring steel, and are very elastic and durable.

Price.....$7.00

Combination Potato Digger, Sub-soil Plow and Double Mouldboard Plow.



FOR TWO OR THREE HORSES.

Each plow is in itself a perfect tool. The change from one plow to another can be made in a few minutes. The subsoil plow should always be used with a wheel.

The standard is made of malleable iron, 6½ inches wide at the narrowest point and firmly bolted to the beam. The double mould and points and digger mould are made of chilled cast iron, polished, and digger fingers of wrought iron. Altogether a very strong and serviceable implement.

OUR SPECIAL PRICES.

Sub-soil Plow, plain.....$5.00
Sub-soil Plow, with wheel..... 6.00
Double Mould for same..... 1.00
Potato Digging Attachment for same... 2.00

Prairie City Potato Cutter.

The Prairie City Potato Cutter will cut potatoes for seed faster than seven or eight men can by hand.

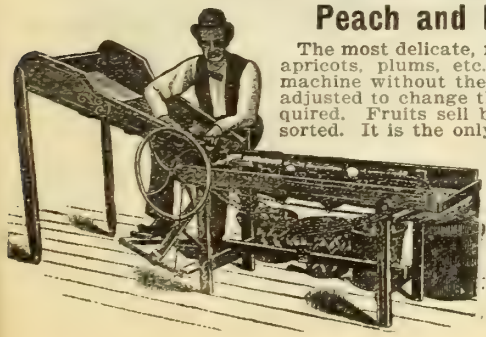
DIRECTIONS.

Cut one potato at a time. If the lever suggests some other way, you can, by two screws, take it off and change it by making it longer, or by making the paddle smaller or larger or you can leave it off and use a wooden mallet. Be careful not to press or strike harder than sufficient to drive the potato down. A little experience will determine the force required.

Price ... $2.00

THE LATEST IMPROVED

Peach and Potato Sorter.



The most delicate, ripe and softest peaches, apricots, plums, etc., can be graded in the machine without the least injury. It can be adjusted to change the size of the grades required. Fruits sell better by being properly sorted. It is the only machine that will sort both peaches and potatoes. It runs as lightly as a sewing machine with foot treadle.

It is Easily Operated

Weight, 200 pounds.
Shireman's patent.

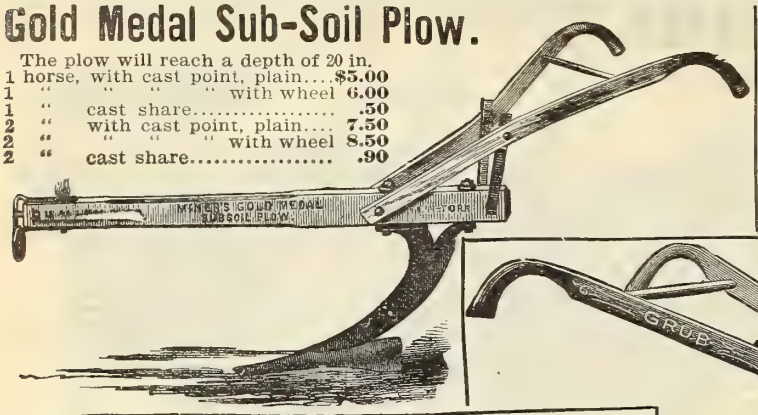
RETAIL PRICE.

No. 1—Capacity 2,000 bushels per day.$32.00

Gold Medal Sub-Soil Plow.

The plow will reach a depth of 20 in.

1	horse, with cast point, plain....	$5.00
1	" " " with wheel	6.00
1	" cast share.....	.50
2	" with cast point, plain....	7.50
2	" " " with wheel	8.50
2	" cast share.....	.90



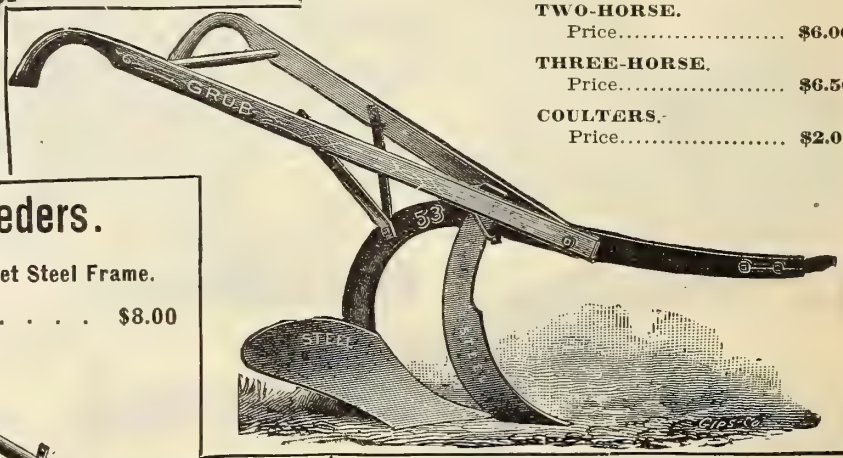
Old Dominion Grub Plow.

It is peculiarly adapted to newly cleared ground that is encumbered with growth of hazel or other bushes. All wearing parts are of the best steel, and it is so strongly built that it will withstand the hardest usage. It is the favorite plow of its class. It is built in right hand only, and cuts about 7 inches. If you ever have a demand for a new ground plow, you should try this one.

TWO-HORSE.
Price..... **$6.00**

THREE-HORSE.
Price..... **$6.50**

COULTERS.
Price..... **$2.00**



Standard Walking Weeders.

7½ Feet Steel Frame.

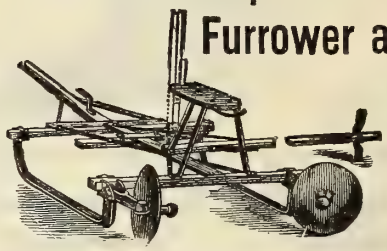
Price, ... $8.00

THE FRAME is made of angle steel bars, with sufficient stay and tie bars to insure proper alignment.

THE TEETH are specially constructed and oil-tempered, having the correct shape to give them proper elasticity. Among the advantages obtained from a round tooth is the slight lateral motion when meeting an obstruction, preventing injury to the crop when the tooth releases. The teeth are spaced so that it is impossible to gather trash or clog, and are quickly leveled by a raising and lowering device.

PATENTED TOOTH CLIP positively prevents the teeth from coming loose.

Darnell's Improved Patent Furrower and Marker.



Strong, light and durable. A half-dozen tools in one, and each worth the purchase price. Runs steadily and cannot be choked. Adjustable throughout. Gauge self-adjusting to all inequalities of ground. Every part well made of good material, and no end to its wear and usefulness. Broad runners of wrought T angle iron with rib to prevent sliding on side hill. Revolving discs or furrowers 15 inches in diameter, with chilled hub and steel axle, cutting a clean, straight furrow. Shipping weight, 140 pounds. Price.....**$20.00**

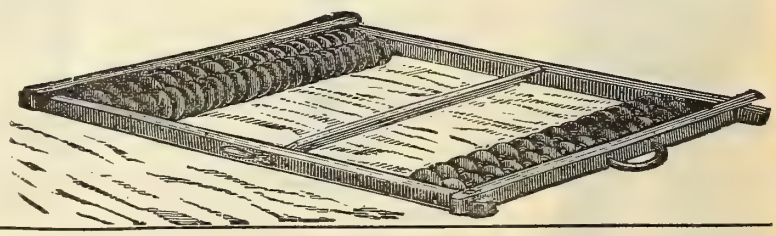
THE Meeker Smoothing Harrow.

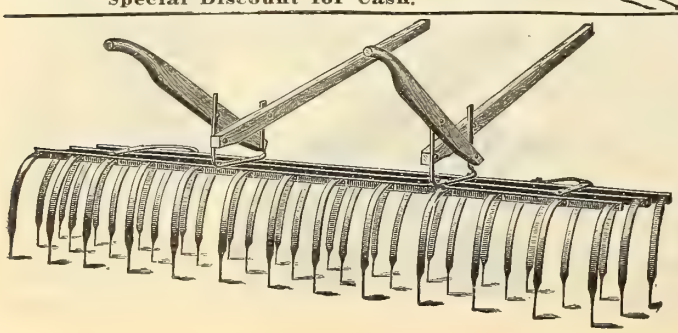
STEEL DISC.

A PERFECT HARROW AND A PERFECT LAND ROLLER COMBINED.

The frame measures 6 feet 8 inches by 6 feet, and has 4 sets of rollers, having 58 discs, 8 inches diameter, on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth and doing its work far better than the rake. Price.....**$20.00**

Special Discount for Cash.





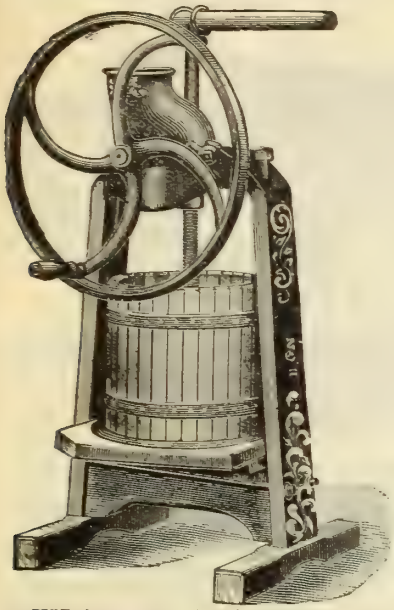
The Hallock Quadruple Weeder and Cultivator.

The frame is of angle iron. Each tooth is bolted on separately. The handles and shafts are adjustable. The teeth are six inches apart on each frame and so arranged that a six-inch space shows diagonally across. This allows butts of cornstalks and trash to pass through.

By removing one tooth a four-inch space is given over the row. The removal of two teeth will give a six-inch space. It works also four, six and eight rows.

Write for Prices.

CIDER MILLS AND PRESSES.



THIS is a very handy little mill for making a small quantity of cider, 5 or 10 gallons at a time. All of the juice of the apples can be gotten out, but not so rapidly as with the other styles on this page. It is really intended more for grinding grapes and other small fruit for wine, and is so constructed as not to crack the seed.

No. 0—Single Cage Mill . . . **$9.50**
" 1— " " " . . . **10.50**

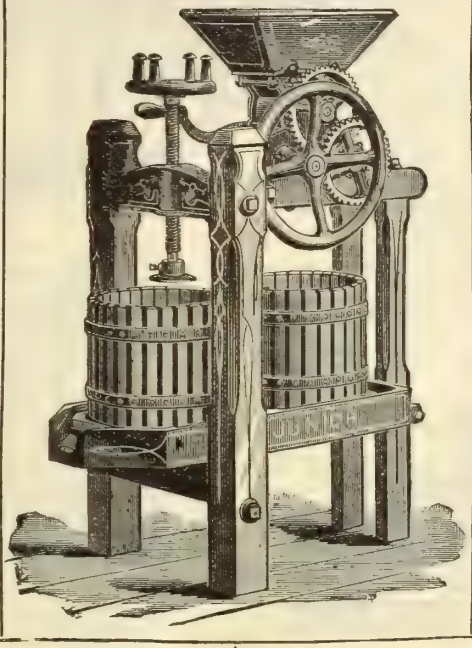
Special Discount for Cash.

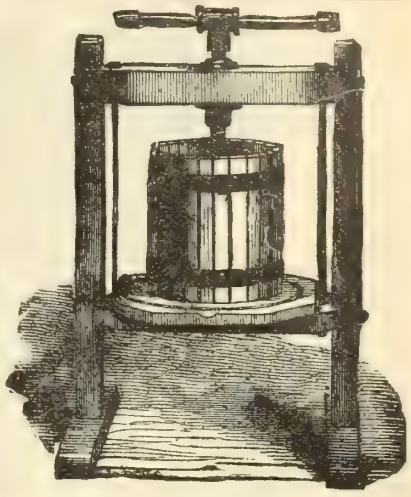
"Junior" Hand Cider Mill.

THIS Mill is almost identical with the "Medium" and "Senior," except it is smaller, and it has only one handle. In the preparation of the pomace for cider, it is the same in all its parts.

Price **$15.00**

Special Price for Cash.



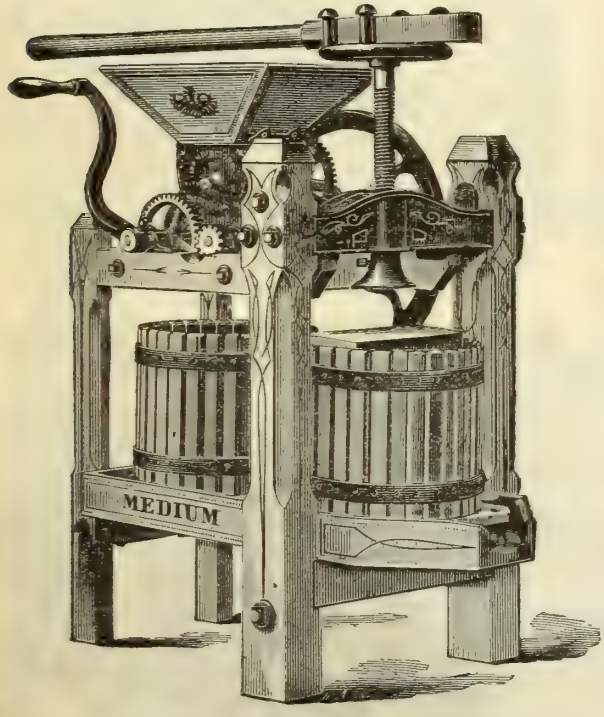


Berry Press

THIS little press is for the purpose of expressing the juice of grapes and other small fruits for wine making. Strong and substantial. Made of oak staves securely bound with a rivet in each stave. Frame of oak and securely ironed, and will stand great pressure.

Berry Presses No. 1 . . . . . **$4.50**
" " " 2 . . . . . **5.25**
" " " 3 . . . . . **7.25**

Special Discount for Cash.

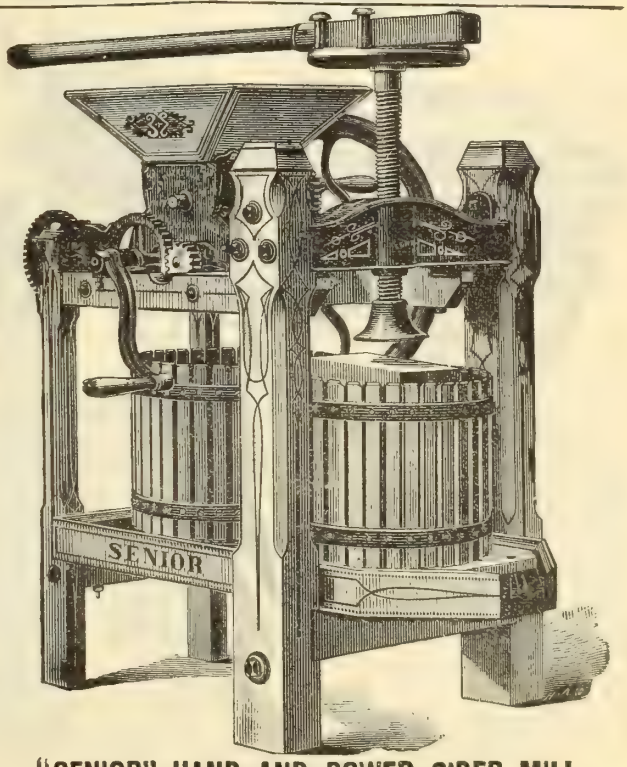


"Medium" Hand Cider Mill.

A compromise between the "Junior" and "Senior," and a general favorite. Has only one handle.

Price **$18.00**

Special Price for Cash.



"SENIOR" HAND AND POWER CIDER MILL.

THIS is our largest sized Mill, adapted for hand or power, with a detachable handle on either side. The top set of rolls first mash the fruit fine, and the bottom set grinds it, thoroughly breaking all the cells, so that the cider is entirely extracted. These mills produce more cider to a given quantity of apples than any other Mill on the market.

Price **$22.50**

WORCESTER KEMP MANURE SPREADER.

POINTS OF SUPERIORITY.

There have been many wonderful improvements in the Worcester Kemp Manure Spreader since it was first made years ago, and the Spreader of to-day represents the latest type of machine, with every real improvement.

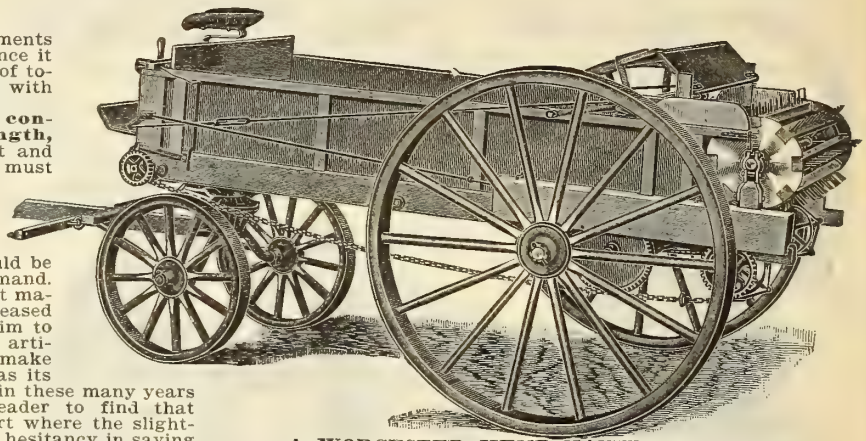
The most essential feature in the construction of a manure spreader is strength, for when it is considered that the coarsest and roughest of manure, as well as the lightest, must be torn to pieces, pulverized, and distributed over the surface of the ground in an absolutely even manner, it can readily be seen that the strain upon a manure spreader is more severe than upon any other farm implement and the machine should be of necessary strength to meet this extra demand.

Simple construction and fewer parts of best materials are better for the farmer than increased parts and complications. It has been our aim to see not how cheaply we can manufacture an article, but how good and serviceable we could make it for our patrons. "A chain is as strong as its weakest link," and it has been our endeavor in these many years of manufacturing the Kemp Manure Spreader to find that "weakest link," and to strengthen every part where the slightest weakness might develop, and we have no hesitancy in saying that the Kemp Manure Spreader of today will meet every demand, and delight every user. The Worcester Kemp Manure Spreader is very simply constructed, and is free from all complications.

The most important feature a manure spreader can possess is strength in all its parts, and when all its parts are strong good work will follow.

An examination of the Worcester Kemp Manure Spreader will convince all farmers it is one of the strongest constructed spreaders made.

The timber construction is especially staunch, body of the machine being framed with mortises, tenons and tie-bolts. No construction could be better or more conducive to lasting strength, as is proven by the longevity of our Kemp Spreaders. The sills are 2½ inches by 5 inches, which give a firm foundation for the body of the spreader.



A WORCESTER KEMP MANURE SPREADER WILL SAVE ITS COST IN A SINGLE YEAR.

The Worcester Kemp Manure Spreaders have 2¼-inch steel axles, with close-fitting hubs. The wheels are of the strongest construction.

The rollers supporting the floor are placed very near together, which allows the apron to roll back easily, and thus the load is fed to the beater with the lightest draft possible.

The Worcester Kemp Manure Spreader has **two chains to draw back the load to the beater.** This is a very important feature of this machine. With the two chains, one at either side, the apron is always kept in position in centre of body, and the load rolled back evenly without binding at the sides.

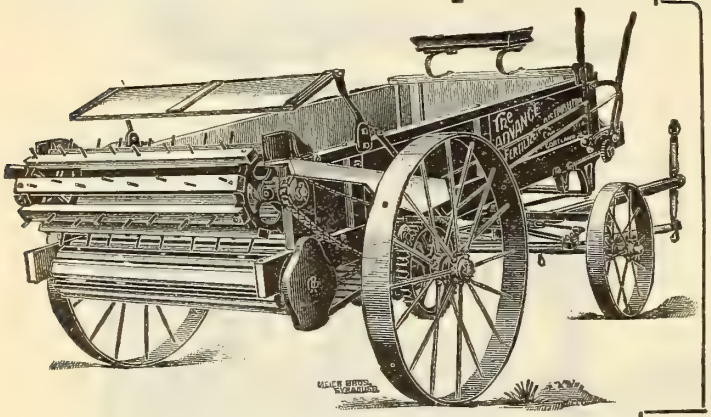
THE CHANGEABLE SPEED DEVICE is very simple and strong. It can be regulated almost instantly to spread 5, 10, 15, 20 or 40 loads to the acre, as desired. Special gear for spreading ashes, lime or fertilizers also furnished if desired.

The floor of the spreader is a revolving apron, which is carried backward by the gearing, bringing its contents against a rapidly revolving beater, which thoroughly breaks up, pulverizes and distributes the manure. It is thrown into gear by a single lever at left hand of driver's seat, and throws itself out of gear when the load is spent. It will evenly and thoroughly distribute all kinds of manure found upon the farm, from the roughest and toughest down to the finest, including ashes, lime and fertilizers, in all conditions, wet or dry, and the time required to spread a load is from 1½ to 2 minutes, without manual labor. It is regulated to put out different quantities to the acre. The farmer may know exactly how much manure he is using without the trouble of measuring his field and his manure pile. It can be accurately regulated to spread any number of bushels of ashes or lime to the acre. Two loads of manure applied with the Worcester Kemp Manure Spreader are equal to three loads put on by hand, as the crops will bear testimony. Fields where the Worcester Kemp Spreader is used can be distinguished from all others by the quality of the crops.

40-BUSHEL SPREADER..... $120.00
50-BUSHEL SPREADER..... 125.00

Special discount for cash.

Advance Manure Spreader.



Axles of cold drawn steel, 2 3-16 in. rear, and 1¼ in. front wheels with cast-iron hubs, steel tires and steel spokes with upset ends. Tires 5 in. wide in rear and 4 in. wide in front. Amount distributed regulated by driver, from seat, and every inch of ground covered. The double gear operates beater, and works from both sides. Will spread any and all kinds of barnyard manure, fertilizer, lime or ashes. By means of the end gate no material is wasted. With **off motion** of the lever, by the driver, the end gate is raised and machine thrown in gear. Machine cannot be thrown in gear unless end gate is raised safely out of the way of beater, thus avoiding breaking. Will spread broadcast or in rows, thick or thin, as desired, and feed can be changed from one to twenty-five loads per acre without stopping machine.

No. 1.—40 bushels	$105.00
No. 2.—55 bushels	110.00
No. 3.—70 bushels	115.00
Brake or lock for hilly sections	5.00
Three-horse evener	4.00

Special Discount for Cash.

PRICES OF ATTACHMENTS.

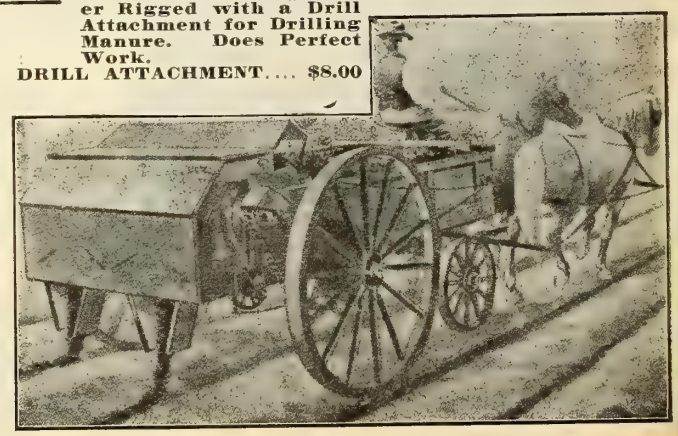
Drill attachment, for row manuring, extra	$8.00
Lime hood	5.00

Worcester Kemp Manure Spreader

WITH DRILL ATTACHMENT.

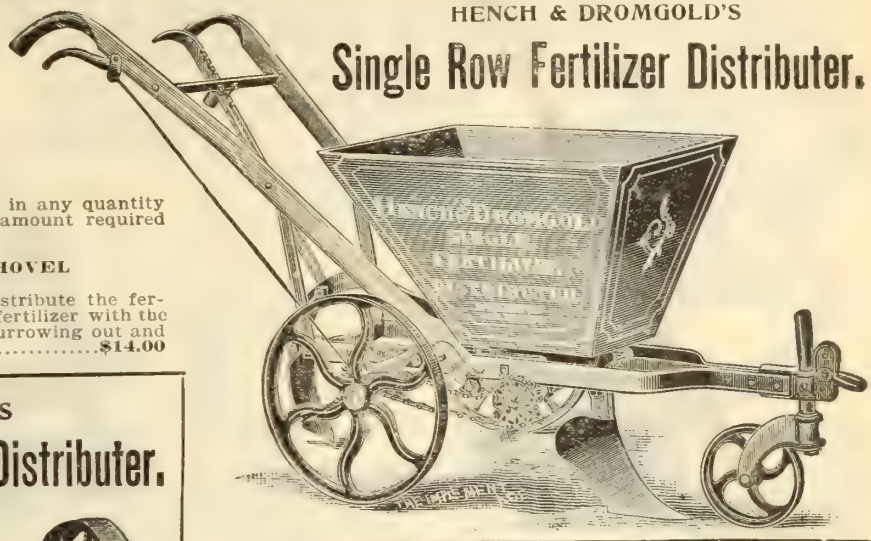
The Cut Shows the Spreader Rigged with a Drill Attachment for Drilling Manure. Does Perfect Work.

DRILL ATTACHMENT.... $8.00



HENCH & DROMGOLD'S

Single Row Fertilizer Distributer.



THIS distributer has same fertilizer feed as used on Hench & Dromgold Corn Planters except that it is much larger; it has given perfect satisfaction wherever used; is comprised of only five pieces, so arranged as to prevent fertilizer from arching. We also have under the planter a funnel-shaped iron which scatters the fertilizer as desired.

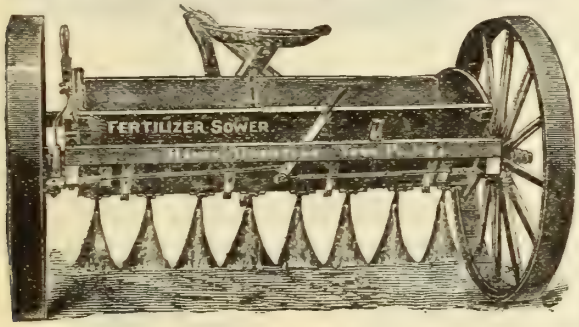
Three chain wheels are furnished with each machine. It will sow or distribute evenly any kind of commercial ferilizer and in any quantity desired, from the smallest to the largest amount required per acre.

FURNISHED WITH SCORING SHOVEL

To open the row, and at the same time distribute the fertilizer evenly; also a rear shovel to mix the fertilizer with the soil, which is very important. Price, with furrowing out and rear shovels, complete.....$14.00

HENCH & DROMGOLD'S

Fertilizer, Lime and Ash Distributer.



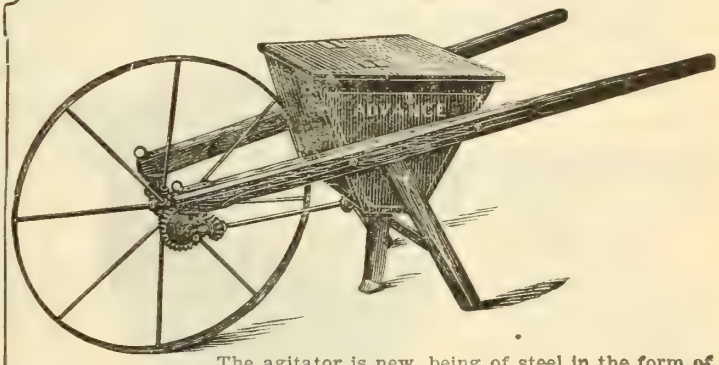
This Fertilizer Distributer will sow evenly fertilizer, Paris Green, etc. The machine is easily operated. The lever on the rear throws the machine in and out of gear. The lever on the left side changes the feed to a small quantity for sowing, even Paris Green, and will sow as much as 8,000 pounds of fertilizer per acre.

No. 1—Distributer, 3 feet 6 inches.....$30.00
No. 2—Distributer, 4 feet 8 inches..... 36.00
No. 3—Distributer, 5 feet 10 inches..... 42.00
No. 4—Distributer, 8 feet 2 inches..... 48.00

Those persons who use unsifted lime can order extra screen, which is a little larger than the box.

Price.....$2.50

Baltimore Pea and Fertilizer Drill.

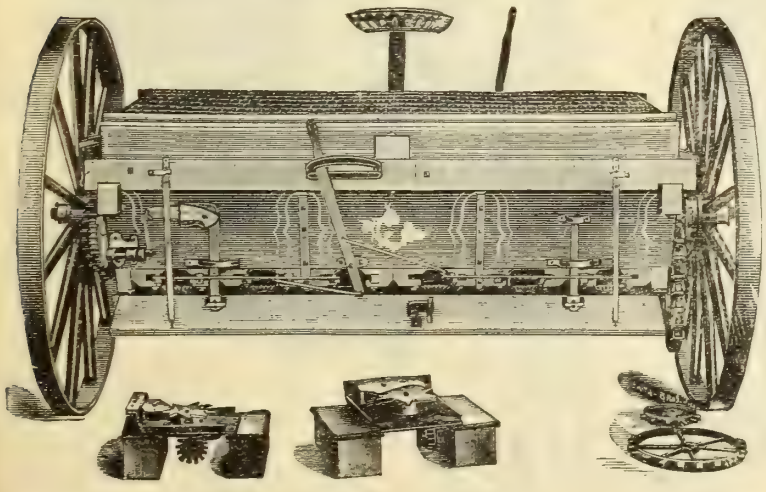


The agitator is new, being of steel in the form of two knife-shaped arms sweeping around under the mass of the fertilizer and throwing it upon the revolving disc below. A shut-off has lately been added, whereby the waste of fertilizer is stopped when turning at ends of rows. As shown in cut, loops are bolted to frame for the purpose of attaching a horse. Excellent for sowing fodder, corn or ensilage.

Price.....$6.00

(See Page 86.)

BALTIMORE LIME AND ASH SPREADER.



CAPACITY OF MACHINE.

A strong and substantial machine, has spreading capacity of from 15 to 80 bushels to the acre. The quantity can be regulated at the will of the operator. The wheels are 4½ feet high. The machine has six feeds and will spread 7½ feet wide. The box or hopper is fitted with a powerful agitator, which breaks any arch formed by lime, ash or commercial fertilizer. The lime is fed out on a distributing board or shaker, which can be set at different elevations, and this, in vibrating, distributes the lime evenly and regularly. With this machine a field may be evenly covered with as little or as much lime as the land can consume or is required for the nourishment of the crops. Lime is not easily nor is it evenly spread by hand, particularly in small quantities. After lime has been hauled into the field, placed in large piles and slaked it is ready to be spread. Any boy strong enough to fill the hopper and manage horses can operate the machine. The lime falls but a few inches, thus avoiding dust to either driver or horses. If the wind is very strong an apron can be tacked, if desired, in front of hopper. Ordinary lumps going through the attached sieve will not interfere with the sowing. We also furnish an extra cap and large wheel whereby fertilizer of every description and plaster can be sown with the spreader in quantities as low as 300 pounds, and, if coarse, 250 pounds per acre. The hopper will hold even with sieve 18 bushels of slaked lime. Price.....$75.00

PRICE.....$75.00

C. S. BELL COMPANY'S BELLS.

Crystal Metal Farm Bells.

	Diameter of Bell.
No. 1	15
No. 2	17
No. 3	19
No. 4	21

	Weight, Complete.
No. 1	40 lbs.
No. 2	50 lbs.
No. 3	75 lbs.
No. 4	100 lbs.

PRICES.

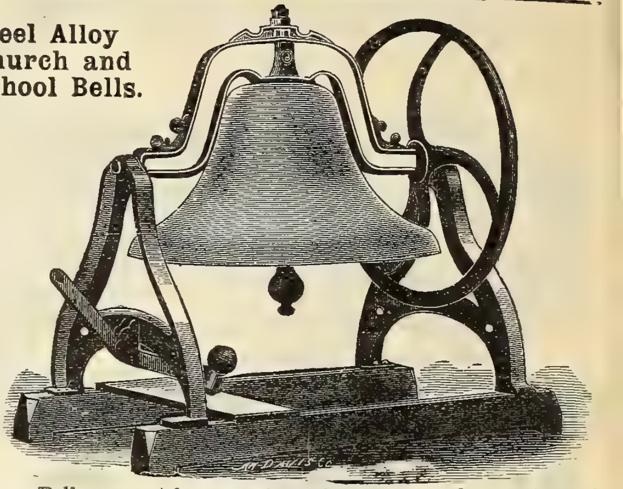
	List Price, Bronzed.
No. 1	**$4.00**
No. 2	**5.00**
No. 3	**7.50**
No. 4	**10.00**

THESE BELLS ARE COVERED WITH A RICH GOLD BRONZE AND THE HANGINGS WITH GOOD VARNISH.

	Retail Price, Bronzed.
No. 1	**$1.80**
No. 2	**2.25**
No. 3	**3.38**
No. 3	**4.50**

Above prices include Bell and hangings complete.

Steel Alloy Church and School Bells.



These Bells are cast from an alloy of cast steel and crystal metal, and can be relied on under all circumsances and in all seasons.

No.	Diameter.	Weight, Bell Only.	(MOUNTED.) Weight, complete.	Retail Price.
22	22-inch.	122 pounds.	175 pounds.	**$15.00**
24	24-inch.	153 pounds.	225 pounds.	**20.00**

Tolling hammer not furnished with No. 22. When furnished with No. 24, **$5.00** extra. Prices on above named are for **COMPLETE BELLS** and include wood sills and iron wheel.

GALVANIZED STEEL BASKETS.

WITH RE-ENFORCED OR DOUBLE STEEL BOTTOMS.

Bushel—A 101......... **$1.00**

PLAIN BOTTOMS

Bushel............ **80c.**
Half bushel...... **65c.**

UTILITY STEEL BASKETS.

JAPANNED. DRY MEASURE.

With Bail and Side Handles—

Half bushel....... **50c.**

With Patented Clips and Drop Handles.

Half bushel....... **45c.**
Bushel............ **60c.**
1½ bushels......... **75c.**

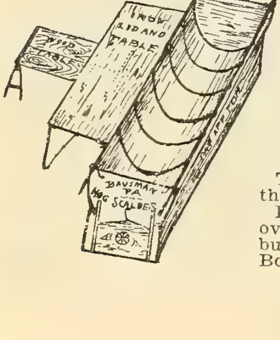
OAK BASKETS.

1 bushel, plain............ **60c.**
1 bushel, with rim....... **65c.**
1¼ bushels, plain.......... **70c.**
1¼ bushels, with rim...... **75c.**
1½ bushels, plain........... **80c.**
1½ bushels, with rim...... **90c.**

CEDAR AND OAK MEASURES.

In Electric Welded Wire and Flat Hoop.

¼ peck, cedar, wire hoops	**$0.35**
¼ peck, cedar, second quality flat hoops	**.25**
½ and ¼ peck, cedar, combined, wire hoops	**.40**
½ and ¼ peck, cedar, combined, second quality flat hoops	**.30**
Peck and ½ peck, cedar, combined, wire hoops	**.50**
Peck and ½ peck, cedar, second quality flat hoops	**.40**
½ bushel, cedar, wire hoops	**.75**
½ bushel, cedar, second quality flat hoops	**.50**
½ bushel, oak, iron cross bar	**1.25**



Corn Barrels.

Without handles.........**$4.50**
With handles.............**$5.00**

Steel Hog Scalder and Feed Cooker.

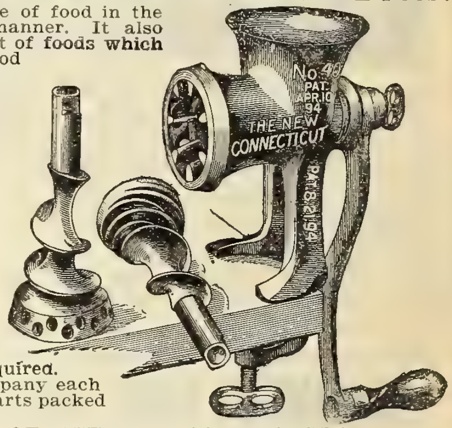
Plain Scalder, with legs, 30x18 inches x 6 feet............**$16.00**
Fire box, as shown.......... **10.00**
Rack (net)..................... **6.00**

Table can be built out of wood on the place.

Plain Scalder does very well if placed over a ditch and fire built underneath, but large dealers prefer Rack and Fire Box complete.

THE NEW CONNECTICUT MEAT CHOPPERS.

CHOPS AND PULVERIZES ALL KINDS OF TABLE FOOD.



Cuts every article of food in the most acceptable manner. It also prepares a long list of foods which no other meat or food chopper can utilize.

Makes that fine table luxury, "Peanut Butter" to perfection. Prepares cocoanut and chocolate for cakes, pies and puddings. Pulverizes all kinds of nuts. Reduces figs and dates to paste for layer cake, etc.

Does it all without removing the machine from the table by simply inserting the devices to do the work required.

Directions accompany each machine with its parts packed in a cardboard box.

PRICES OF THE NEW CONNECTICUT.

No. 40.—Weight, 4¾ pounds (packed six in a case), will chop two pounds of meat per minute.............Each, **$1.25**

No. 60.—Weight, 8 pounds (packed six in a case), will chop three pounds of meat per minute..................Each, **1.50**

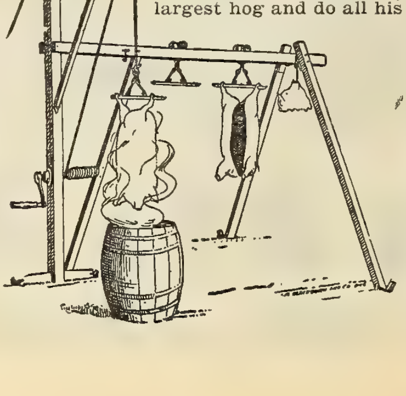
THE REGULAR CONNECTICUT MEAT CHOPPER.

No. 10.—Capacity, about three pounds per minute............**$2.00**

OHIO BUTCHERING DERRICK.

Saves Wood, Water, Extra Help and Vexation.

One man without any help can swing the largest hog and do all his own slaughtering.



DESCRIPTION.

From the pulley to the ground, 9 ft.; length of derrick, 9 ft. 6 in.; track, 6 ft. 9 in. from the ground; braces, 6 ft. 6 in. wide at the bottom. Each Derrick furnished with 4 gammon sticks, 4 pulleys, 4 head hooks, 20 feet manila rope, malleable iron stayrings, a windlass of easy sweep.

It is thoroughly well braced with proper cast-iron supports to the crane. Weight, 150 pounds. Price..**$12.00**

ATKINS' CELEBRATED SAWS.

HAND SAWS.

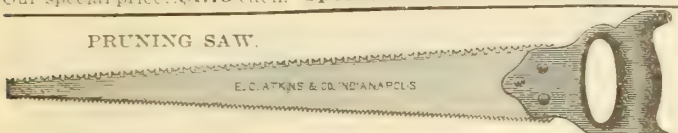
No. 38.—American straight back; plate on handle. Our special price.....75c. each.

No. 59.—Sheffield Saw Works. Skew back; beech handle; polished edge, 7 to 9 points. Factory list price, **$14.00** per dozen. Our special price.....**$1.00** each.

No. 54.—Silver steel; beech handle; straight back; polished edge, 7 to 9 points. Factory list price, **$22.00** per dozen. Our special price.....**$1.50** each.

No. 53.—Silver steel; skew back; carved and polished apple handle, with Atkins' perfection handle. Factory list price, **$25.50** per dozen. Our special price, **$1.75** each. **Special Prices in Quantities.**

HAND SAW.



PRUNING SAW.

PRUNING SAWS.

No. 2 DUPLEX PRUNING SAWS.

16-inch. Our special price.....**60c.**
18-inch. Our special price.....**70c.**
20-inch. Our special price.....**80c.**

CROSS-CUT SAWS, WIDE TOOTH, AMERICAN.

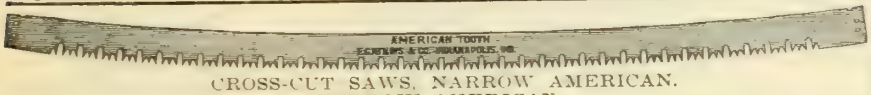
Wide American Tooth, Silver Steel, 5, 5½ and 6 feet. Gauge, 14x16.

Factory list price, 5 ft.....	$2.30	Our Special Price.....	$2.00
Factory list price, 5½ ft.....	2.54	Our Special Price.....	2.25
Factory list price, 6 ft.....	2.76	Our Special Price.....	2.50

Tuttle Tooth, Cast Steel. Gauge, 14x16.

Factory list price, 5 ft.....	$2.30	Our Special Price.....	$2.00
Factory list price, 5½ ft.....	2.54	Our Special Price.....	2.25
Factory list price, 6 ft.....	2.76	Our Special Price.....	2.50

Special Prices in Quantities. Price of Cross-Cut Saws is Without Handle.



CROSS-CUT SAWS, NARROW AMERICAN.

NARROW AMERICAN.

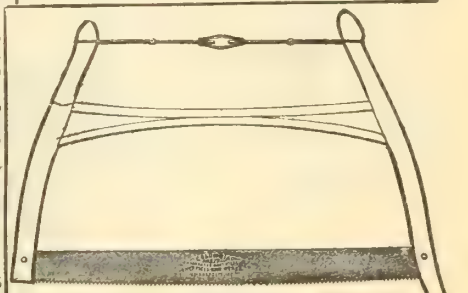
5 ft. Our special price.....**$1.40** 6 ft. Our special price.....**$1.75**
5½ ft. Our special price..... **1.50** **Special Prices in Quantities.**

PRICE OF CROSS-CUT SAWS IS WITHOUT HANDLE.

Climax Handles, 15c. per pair.

ONE MAN CROSS-CUT SAW.

American tooth, 3 ft.....**$1.75**
American tooth, 3½ ft..... **2.00**
American tooth, 4 ft..... **2.25**
American tooth, 4½ ft..... **2.50**
Special Prices in Quantities.


WOOD SAW.

WOOD SAWS.

No. 617.—Wood brace frame; single rivet; painted red; plain tooth; breasted blade, 2¼ in. wide. Our special price.....**60c.**

No. 523.—Wood brace frame; single rivet; selected stock; high finish; painted red; jumbo rod tinned; Tuttle tooth; breasted blade, 2¼ in. wide. Our special price.....**75c.**

No. 823.—Cantilever frame; selected maple stock; fine natural wood finish; jumbo rod tinned; Tuttle tooth blade breasted, 2¼ in. wide. Our special price.....**$1.00**

Wood saw bucks.....**35c.**

Baltimore Circular Saw.

With Swinging Table.

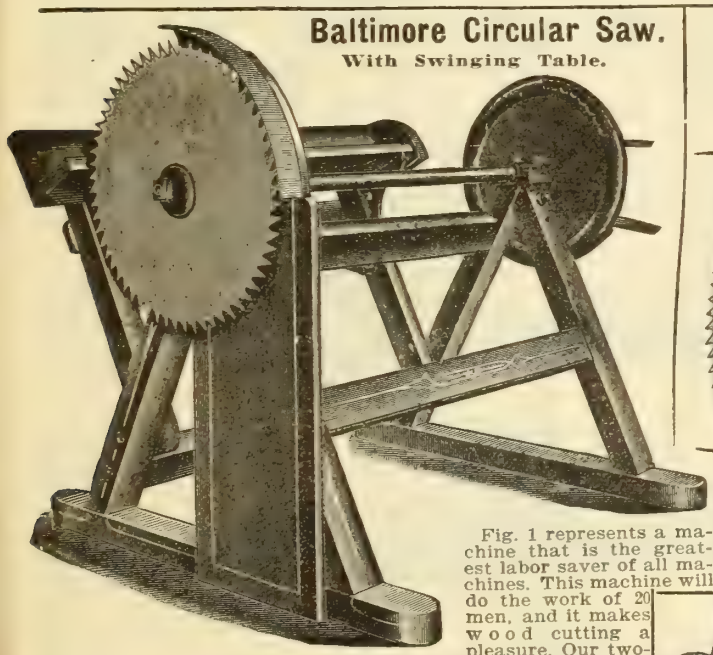


Fig. 1 represents a machine that is the greatest labor saver of all machines. This machine will do the work of 20 men, and it makes wood cutting a pleasure. Our two-horse-power or any tread-power will run this wood saw. It has a heavy balance wheel, pulley 6 inch face, 6 inch diameter. This machine is guaranteed. Weight, 190 pounds.

	List Price.	Retail Price.
No. 1. With 22-inch saw.....	**$44.00**	**$30.00**
No. 1. With 24-inch saw.....	**46.00**	**32.00**

THE SWING TABLE on both these machines is operated with ease.

Drive pulley, 6-inch diameter, 6-inch face.	List Price.	Retail Price.
No. 2. With 22-inch saw.....	**$53.00**	**$35.00**
No. 2. With 24-inch saw.....	**55.00**	**37.50**

Weight, 245 pounds.

Baltimore Circular Pole Saw.

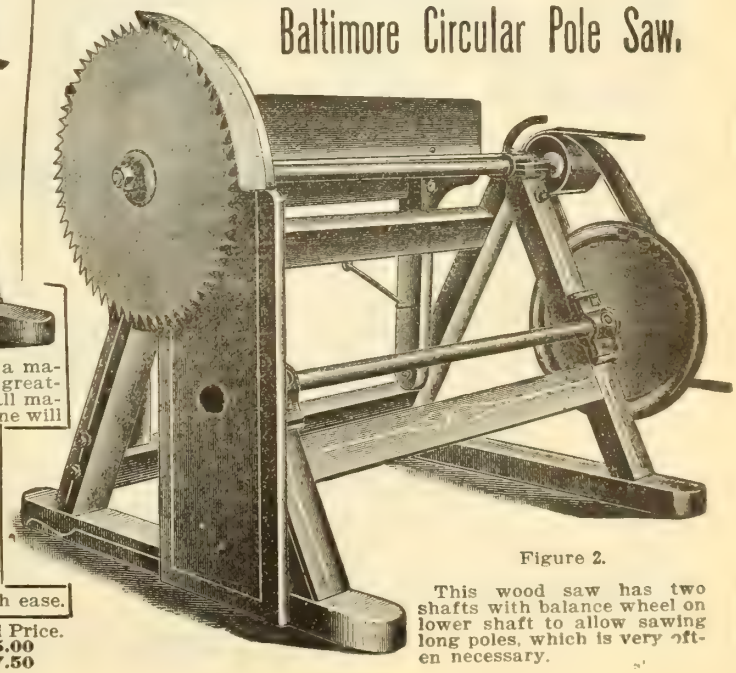


Figure 2.

This wood saw has two shafts with balance wheel on lower shaft to allow sawing long poles, which is very often necessary.

GENUINE OLIVER CHILLED PLOWS AND REPAIRS

PLOWS—PRICES.

WOOD BEAM.—RIGHT AND LEFT HAND.

No. A-1 and A-2, Right Hand only,	$4.50	No. E 1	$9.50
" B, Right Hand only	6.00	" 40	9.50
" B Vineyard, Right Hand only	7.50	" 40 XX	10.50
No. 10-0	7.00	" 22, Chilled, Iron Beam, Right and Left Hand	11.00
" 13	8.00	No. 3 X, Chilled, Iron Beam, Right Hand only	9.50
" 19	8.50		
" 20	9.00		

OLIVER COMBINATION PLOWS.

WOOD BEAM, RIGHT AND LEFT HAND.

No. 120—All Chilled, only	$9.50
" 140—All Chilled, only	10.00

OLIVER SPECIAL PLOWS.

No. 1—Road and Grading Plow, all steel, with Standing Coulter and Gauge Iron or Wheel	$30.00
The Oliver Sub-soiler, best of its kind, with Wheel	14.00

OLIVER HILLSIDE PLOWS.

They are made in two sizes—the smallest, No. 52, for one horse, and the largest, No. 53, for two horses. It is made with steel mouldboard and cast point, and is well equipped in all respects for first-class work.

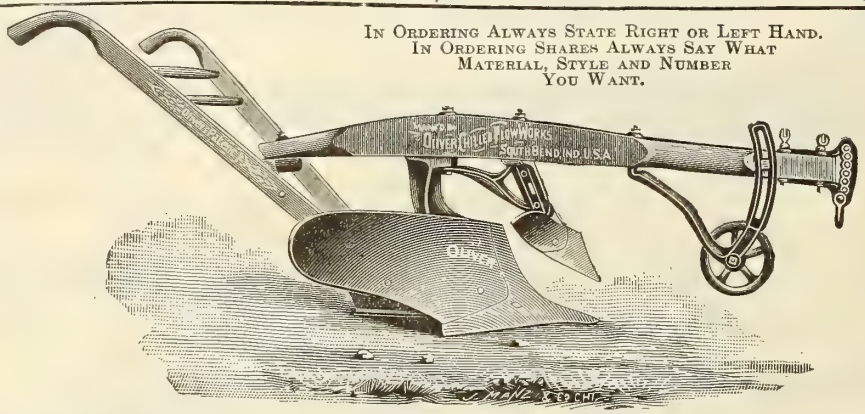
In addition to its excellent qualities as a hillside Plow, it also works admirably in level ground, and having been thoroughly tried we do not hesitate to recommend it highly.

No. 52, Steel Mouldboard, Cast Share, Wood Beam	$10.00
No. 57, Steel Mouldboard, Cast Share, Wood Beam	12.00
No. 58, Chilled Mouldboard, Cast Share, Iron Beam	9.00

NOTE.—A Clevis, Wrench and an extra share are included in above prices for Plows fitted with Cast Shares, but wheels and jointers are not.

Don't Forget to Look for the Oliver Trade Mark on All Genuine Oliver Goods.

IN ORDERING ALWAYS STATE RIGHT OR LEFT HAND.
IN ORDERING SHARES ALWAYS SAY WHAT MATERIAL, STYLE AND NUMBER YOU WANT.



If Your Dealer From Whom You Obtain Your Plows and Repairs Does Not Handle the Genuine Oliver Plows and Castings Write to Us Direct.

OLIVER REPAIRS.

MOULDBOARDS.

No. A-1 and A-2	$1.25	No. 40 XX	$3.50
" B and B. Vineyard	1.75	" E	3.00
" 10-0	2.00	" 3 X	3.00
" 13 and 13 Vineyard	2.25	" 98	2.75
" 19	2.50	" 99	3.00
" 20	2.75	" 119	2.50
" 22	3.00	" 120	2.75
" 40	3.00	" 140	3.00

STANDARDS.

No. A	$1.25	No. 40	$2.50
" B	1.50	" 40 XX	3.00
" B. Vineyard	2.00	" E	2.50
" 10-0	2.00	" 119	2.50
" 13	2.25	" 120	2.50
" 19	2.25	" 140	2.75
" 20	2.25		

SHARES.

Numbers.	Cutter Shares.	Plain Shares.	Cutter Slip-Nose Shares.	Plain Slip-Nose Shares.	Reversible Shares.	Cast Reversible Slip.
A	20c.	18c.	.....	25c.	.....	8c.
B	25c.	20c.	.....	25c.	.....	10c.
B. Vin.	.....	20c.	.....	25c.	.....	10c.
10-0	25c.	.....	35c.	.....	.....	10c.
13	25c.	.....	35c.	.....	.....	10c.
19	30c.	.....	40c.	.....	.....	10c.
20	30c.	.....	40c.	.....	.....	10c.
22	40c.	35c.	.....	45c.	.....	10c.
3 X	30c.	.....	.....	.....	.....	.....
40	30c.	.....	45c.	.....	.....	10c.
40 XX	40c.	.....	.....	.....	.....	.....
E	30c.	.....	45c.	.....	.....	10c.
98	55c.	40c.	.....	.....	25c.	15c.
99	55c.	40c.	.....	.....	25c.	15c.
119	.....	45c.	.....	.....	32c.	22c.
120	.....	45c.	.....	.....	32c.	22c.
140	.....	45c.	.....	.....	32c.	22c.

All Polished Points each, add extra 10 cents.
Non-Reversible Shares and Slips same as Reversible.
Bowers' Slips same as other slips.

LANDSIDES.

No. A	$ .40	No. 40 and 40 XX	$ .75
" B and B. Vineyard	.60	" E	.75
" 10-0	.60	" 98	.75
" 13 and 13 Vineyard	.65	" 99	.75
" 19	.75	" 119	.75
" 20	.75	" 120	.75
" 22	.75	" 140	.75
" 3 X	.75		

HANDLE BRACES.

No. A	25 cents.
" B-10-13-13 Vineyard, B Vineyard	30 "
All other Handle Braces	50 "

HANDLES.

COMPLETE.—PER SET.

No. A-B-10-0	$1.25	No. 98-99-119-120 and 140	$1.85
" 22, complete, less rod	1.25	" 113	1.60
" 13	1.50	" 19-20-E, 40 and 40 XX	1.75
" B Vineyard	2.00		

HANDLES.

PER PAIR AND SINGLE.

All numbers, per pair, loose	$1.00
All numbers, single, each	.50
Rounds, per pair	.10
L. S. Handle Plates	.10

CLEVISES.

Clevises Marked "A," for One-Horse Plows	$ .20
" Marked "B," for Two-Horse Plows	.30
" Marked "D," for Three-Horse Plows	.50
" Shackles, Twisted	.10
" Wrenches	.05
" Guide Pins	.03
" Shackle Pins	.03
" Links, Two-Horse	.05
" Rings, One-Horse	.05

BEAMS.

No. A-B-B Vineyard and 10	$1.00
No. 40 XX	1.50
All other numbers, Wood	1.25
No. 22, Iron	4.25

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

OLIVER REPAIRS.

CONTINUED.

ROLLING COULTERS.

We have Rolling Coulters to fit every kind of Oliver Plows upon which they may be required. See prices below.

11-inch, for one-horse plows, complete.....$2.50
13-inch, for two or three-horse plows, complete..... 3.00

COMBINATION PLOW REPAIRS.

Numbers.	Mouldboard Lugs.	Handle Lugs.	Mouldboard and Landside Braces.	Shins.	Levers.	Springs.	Landside Plates.
98	20c.	20c.	40c.	.....	20c.	5c.	5c.
99	20c.	20c.	40c.	.....	20c.	5c.	5c.
119	20c.	20c.	40c.	20c.	20c.	5c.	.....
120	20c.	20c.	40c.	20c.	20c.	5c.	.....
140	20c.	20c.	40c.	20c.	20c.	5c.	.....
3 X	20c.	20c.	.....	.....	.....	.....	.....

Where blank spaces occur parts are not made, hence prices are not given.
Other parts not enumerated, prices furnished on application.
Note.—A clevis and wrench are included in the foregoing prices, also an extra share is included in prices of all plows fitted with cast shares. Wheels and jointers are not included.

HANGING COULTERS.

These are made to any of our Jointer Holders, and take the place of the jointer where their use is desired.

All other numbers, complete, two-horse.....$2.00
All numbers, complete, one-horse..... 1.50
Holders, same as for jointers..... 1.00

HILLSIDE PLOW REPAIRS.

Plow Nos.	Chilled Mouldboard	Steel Mouldboard	Standards.	Landsides.	Cast Shares.	Set Handles	Beams.	Clevises.	Wrenches.	Wheels.	Jointers.
53½	$3.00	.....	$2.50	$ .75	$ .40	$1.75	$1.00	$ .35	$ .15	$1.00	.....
57	3.00	$4.00	3.25	.75	.50	2.00	1.00	.35	.15	1.00	$2.00
58	2.00	.....	.....	.75	.50	1.25	4.00	25	.15	1.00	.....

WHEELS.

Their use is strongly recommended in wet or mellow ground. Can be furnished for nearly all our patterns. See prices below.

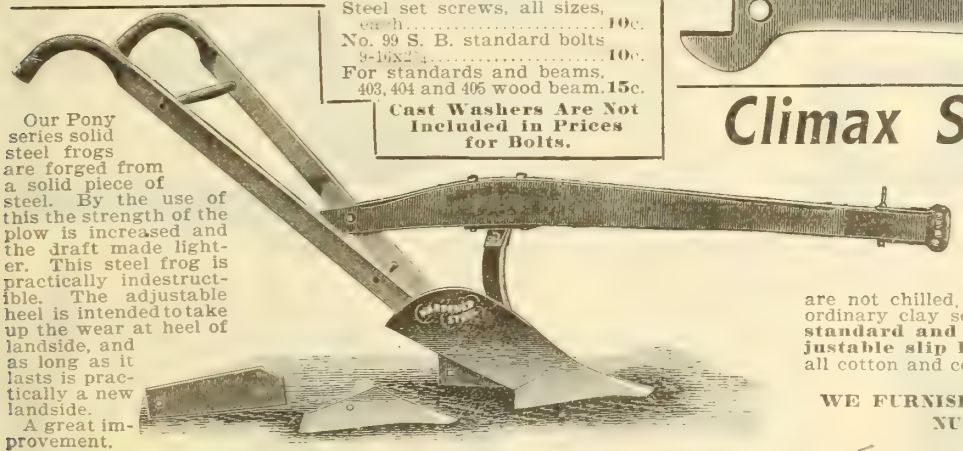
Straight standard, one-horse, complete.....$0.75
Brace, standard, two-horse, complete..... 1.00
Standards, one-horse, straight..... .40
Standards, two-horse, all kinds..... .50
Wheels, only, one-horse..... .40
Wheels, only, two-horse..... .50
Hubs..... .10
Centre pins or hub bolts..... .05
Wheel caps or sand bands..... .05

Note.—In ordering wheels, say if for right hand or left hand wood or steel beam plows.

BOLTS.

For shares..... 3c.
For mouldboards and landsides..... 3c.
For jointer and coulter standard No. 5..... 3c.
For end of handle brace.... 3c.
For jointer and coulter holder, No. 6..... 5c.
For wheel standards (straight or hook)..... 5c.
For end of beam..... 5c.
For wheel hub..... 5c.
No. 14-A clevis bolts..... 5c.
Nos. 20 and 40 steel beam and landslide bolts..... 5c.
No. 99 S. B. jointer holder bolts..... 5c.
Long handle round bolts... 7c.
For all other standards and beams.....10c.
For spreading bottom of handles.....10c.
Nos. 140 and 125 shin bolts..10c.
No. 40 S. B. jointer holder to block bolt.....10c.
Steel set screws, all sizes, each.....10c.
No. 99 S. B. standard bolts 9-16x2¼.....10c.
For standards and beams, 403, 404 and 405 wood beam.15c.

Cast Washers Are Not Included in Prices for Bolts.



Our Pony series solid steel frogs are forged from a solid piece of steel. By the use of this the strength of the plow is increased and the draft made lighter. This steel frog is practically indestructible. The adjustable heel is intended to take up the wear at heel of landside, and as long as it lasts is practically a new landside.
A great improvement.

CLIMAX EXTRAS.	Points.	Lands.	Moulds.	Beams, with Clevis.	Handles per pair less bolts	Wood beam Clevis.
Pony	$.32	$.20	$.50	$.75	$.56	$.15
A. O.	.42	.22	.66	.75	.56	.15
B. O.	.52	.22	.76	.90	.56	.20
C. O.	.64	.30	1.04	1.52	.70	.36
D. O.	.70	.30	1.20	1.56	.70	.36

JOINTERS.

Decidedly the most important of all plow attachments, and can be used on most of our plows. The plowman who once uses a jointer will never want to do without it.

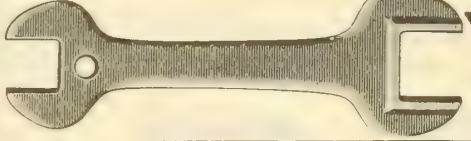
No. D.—Chilled, for one-horse plows.....$1.50
No. 140.—Chilled, for Nos. 120, 125 and 140 plows..... 2.00
No. 2.—For two and three-horse plows..... 2.00
Jointer Points, chilled, all numbers..... .15
Jointer mouldboards..... .35
One-horse jointer holders..... .75
Two-horse jointer holders..... 1.00
One-horse jointer standards..... .50
Two-horse jointer standards..... .50

Note.—In ordering, say whether for wood or steel beam, right or left hand plows.

Oliver Disc Plow.

The fact that this plow is made by the Oliver Chilled Plow Company is a guarantee that it is first-class in every respect.

Price.....$45.00



Wrenches

Each.
One-horse..10c.
Two-horse..15c.

Climax Steel Plows.

These plows have a wide reputation for superiority in quality and finish, and for lightness, because steel, being tougher than cast iron, can be made thinner. They take on a much higher degree of earth polish than is ordinarily found in cast plows that are not chilled, and consequently will scour in an ordinary clay soil. They are all made with **steel standard and cap, sloping landside and adjustable slip heel,** and will do superior work in all cotton and corn lands.

WE FURNISH THEM IN THE FOLLOWING NUMBERS AND SIZES.

PONY—Light one-horse, 7-inch cut, wood beam. Very popular.
Price, with extra steel point.....$2.75

A. O.—One-horse, 8-inch cut, wood beam.
Price, with extra steel point.....$3.25

B. O.—One-horse or light two-horse, 9-inch cut, wood beam. Designed for either stubble or light sod, doing both kinds of work in the most satisfactory manner. Very light draft.
Price, with extra steel point.....$3.75

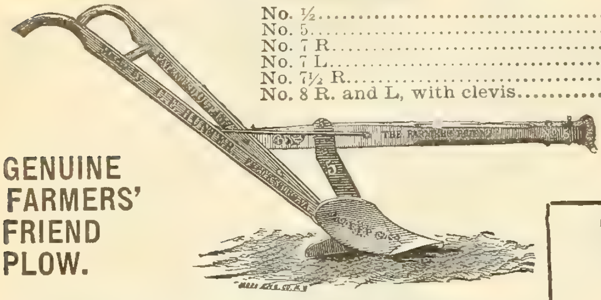
C. O.—Two-horse, 10-inch cut, wood beam.
Price, with extra steel point.....$5.25

D. O.—Two-horse, 11-inch cut, wood beam. It turns its furrow slice perfectly.
Price, with extra steel point.....$6.25

CAST PLOWS.

Minor & Horton High Standard Plows

No. 18	$2.50.	No. 19	$3.00.	Plain Casting per pound.
No. 18½	2.75.	No. 19½	4.00.	



GENUINE FARMERS' FRIEND PLOW.

PRICES OF GENUINE FARMERS' FRIEND PLOW.

No. ½	$2.50
No. 5	2.50
No. 7 R	4.00
No. 7 L	4.50
No. 7½ R	4.50
No. 8 R. and L, with clevis	5.50
No. 8 R. and L., with rod	$6.00
No. 9 R. and L	6.00
No. 1 Hill Side	3.75
No. 2 Hill Side	5.00
No. 3 Hill Side	5.25

Castings by Weight.

"BOY" DIXIE PLOW.

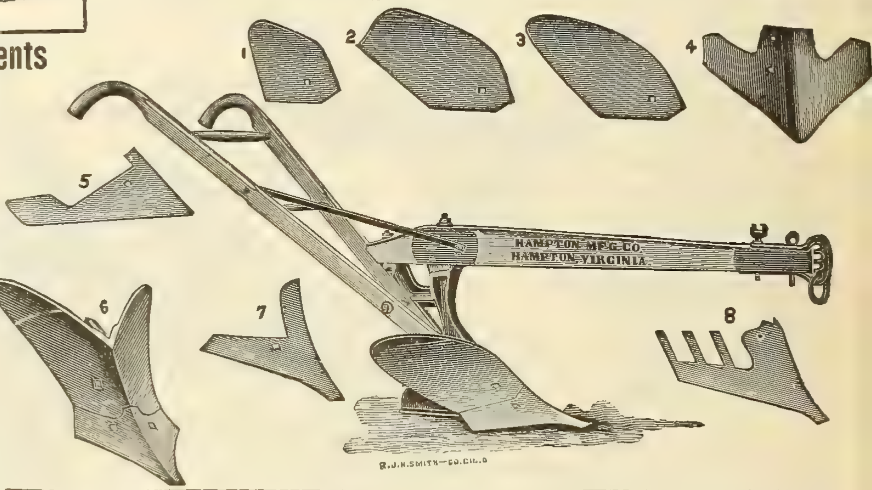
"Boy" Dixie	$2.25
No. X	2.40
No. I	2.50
No. II	4.00

GIRL CHAMPION.

Casting by Weight.

No. "Girl"	$3.25
No. A	3.50
No. AA	3.75

The Hampton Cast Plows.



Hampton No. 1 C or Jersey and Attachments

With every Hampton No. 1 C. Plow is sent three extra moulds and one extra share and wrench, as follows:

No. 1 B, Fig. 3 in cut—A regular one-horse mould board used on all regular No. 1 plows.

Cabbage, Fig. 2 in cut, smaller than No. 1 B—Particularly adapted to the second cultivation of all crops.

Truck, Fig 1 in cut—A small mould board suitable for the early cultivtion of all truck.

All of above are included in the price. **$4.00**

EXTRAS.

Fig. 7 in cut—Cutter or sod land point... **$0.50**
Fig. 8 in cut—Potato digging attachment **.80**
Fig 6—Double mould **2.25**

HAMPTON BOY.

Price, with truck and mould board, wrench and point **$2.50**

HAMPTON No. 1 REGULAR.

This style is similar to the Boy, but larger. Attachments are: Truck mould board, point and wrench. Price, complete **$3.00**

HAMPTON No. 5.

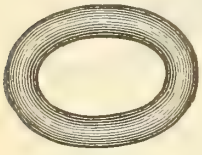
This is a medium two-horse plow, very light draft, and scours thoroughly. Front wheel and jointers furnished when desired, extra. Price, plain plow **$5.75**

Liberal discount to the trade.

Casting on all Hampton Plows......**5c.** per lb.

MALLEABLE CLEVISES FOR CAST PLOWS.

MALLEABLE PLOW LINKS.

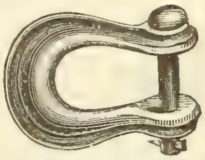


No. 3645.

3 in. long, 2½ in. wide.

Price........**5c.**

END CLEVIS, OR SHACKLE.



No. 3355 B.

¾ in. inside measure; 3 in. extreme length

Price........**10c.**

No. 3515 A.

2 in. beam; 3⅝ in. from centre of wrench to centre of pin; 6¼ in. extreme length. For use on Hampton Boy and Hampton No. 1 Plows........ **20c.**

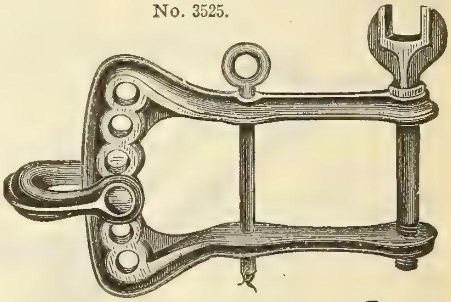
No. 3525 A.

2¼ in. beam; 2⅞ in. from centre of wrench to centre of pin; 6¾ in. extreme length; 6 holes; shackle and pin. For use on No. 5 F. F. and similar cast plows. Price........ **20c.**

No. 3525 F.

2½ in. beam; 3⅝ in. from centre of wrench to centre of pin; 7½ in. extreme length; 6 holes; shackle and pin. For use on No. 7 F. F. and similar cast plows. Price........ **25c.**

No. 3525.

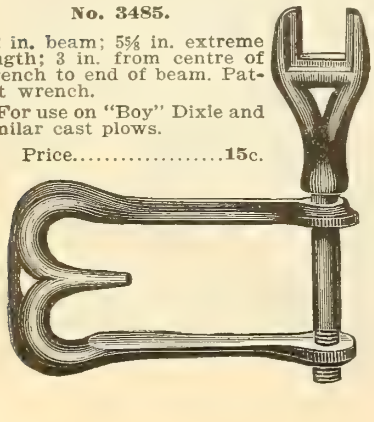


No. 3485.

2 in. beam; 5⅝ in. extreme length; 3 in. from centre of wrench to end of beam. Patent wrench.

For use on "Boy" Dixie and similar cast plows.

Price........ **15c.**

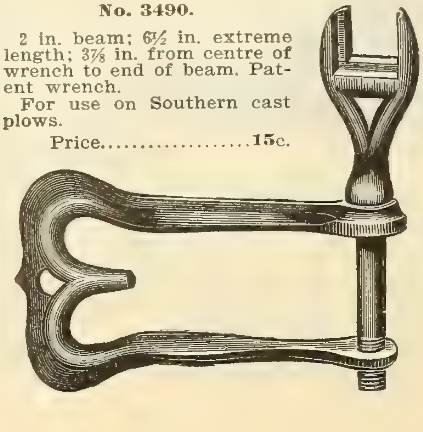


No. 3490.

2 in. beam; 6½ in. extreme length; 3⅞ in. from centre of wrench to end of beam. Patent wrench.

For use on Southern cast plows.

Price........ **15c.**



No. 3500.

2 in. beam; 5¾ in. extreme length; 3 in. from centre of wrench to end of beam. Patent wrench.

For use on Girl Champion and similar cast plows.

Price........ **15c.**

REPAIRS FOR ROLAND CHILLED PLOWS

No. on slip nose.	Number.	Mould boards.	Bowers' slip nose shares.	Slip nose.	Land sides.	Solid shares.	Cutter.	Standard.	Malleable standard for jointer.	Malleable socket for jointer.	Chilled mould board for jointer.	Share for jointer.	Malleable clamp for jointer.	Shifter iron.	Handle plate.	Stretcher.	Pair handles complete.	One handle finished.	Beam finished.	Clevis and loop.	Wheel standard.	Wheel.	Wheel axle
E	E 4 and L 3	$3 00	$0 50	$0 10	$0 75	$0 40	$0 25	$2 50	$0 75	$1 00	$0 40	$0 20	$0 25	$0 40	$0 10	$0 15	$1 75	$0 50	$1 25	$0 40	$0 50	$0 50	$0 25
E	43	3.00	.50	.10	.75	.40	.25	2.50	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.50	.25
D	23	2.75	.50	.10	.75	.40	.25	2.50	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.50	.25
C	C 3	2.50	.50	.10	.75	.35	.25	2.50	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.50	.25
C	D 3 and D 4	2.50	.50	.10	.75	.35	.25	2.50	.75	1.00	.40	.20	.25	.40	.10	.15	1.75	.50	1.25	.40	.50	.50	.25
A	13 and 13 A	2.00	.45	.10	.65	.35	.20	2.00						.25	.10	.15	1.50	.70	1.00	.35			
X	B 3	1.00	.40	.10	.60	.25		1.50						.20	.10	.15	1.25	.40	1.00	.30			
	A 3	1.00	.40	.10	.40	.25		1.50						.20	.10	.15	1.25	.40	1.00	.30			

Repairs for Wiard Plows.

Nos.	Kind.	No. Horse.	Price. Shares.	Lands.	Moulds.
62	R. H. Only	1 Horse	$0.25	$0.25	$0.50
13	" "	1 "	.35	.50	1.50
10	" "	1 "	.35	.50	1.75
19	" "	2 "	.40	.75	2.75
16	" "	2 "	.35	.75	2.75
18	" "	2 "	.40	.75	3.50
26	" "	2 or 3 Horse	.40	.75	3.50
26½	" "	2 Horse	.40	.75	3.00
27	L. H. "	2 "	.40	.75	3.00
28	" "	2 "	.40	.75	3.50
116	Hillside	2 "	.50	....	3.00
126	"	2 "	.50	....	2.50
130	"	2 "	.50	....	2.25

Single handles for No. 62, 35c. each.
All other numbers, single handles, 50c. each, one horse.
Single handles for all 2 or 3 horse plows, fitted, 60c. each.
Handles per set, all 2 or 3 horse plows, complete, per set, $1.50.
For all one horse plows, complete, per set $1.30.

Repairs for South Bend Plows.

Nos.	Shares.	No. Horse.	Shares.	Lands.	Moulds.	Handles in sets complete.	Standards.	Wood Beams.	Shins.
62	Solid	1 H. R. H. only	$0.20	$0.30	$1.00	$1.00	$1.25	$0.75	.....
1 B	"	1 " "	.30	.40	1.75	1.25	1.50	.75	.....
2	"	2 Horse	.35	.75	2.50	1.25	2.25	.90	$0.20
2½	"	2 "	.35	.75	3.00	1.25	2.50	.90	.20
3	"	2 "	.35	1.00	3.00	1.50	2.50	1.00	.20
4	"	2 "	.40	1.00	3.25	1.50	2.75	1.25	.25
10	"	2 "	.40	1.00	3.50	1.50	3.00	1.25	.25
15	"	2 "	.40	1.00	3.50	1.50	3.00	1.25	.25
3	Slip	2 "	.45	.....	.....	.....	.....	.....	.....
4	"	2 "	.45	.....	.....	.....	.....	.....	.....
10	"	2 "	.50	.....	.....	.....	.....	.....	.....
15	"	2 "	.50	.....	.....	.....	.....	.....	.....

Jointers, complete, $2.00. Wheels, complete, $1.00. Rolling Coulters, $3.50
Handles, single, all numbers, 50c. each.
Other extras not named here can be furnished; price on application.
Standing Coulters, $2.00. Slip Points, each, 10c.

Repairs for Syracuse Plows.

WOOD BEAM CHILLED PLOWS.

Nos			Shares	Lands.	Moulds.	Beams.	Standards.	Shins.	Slip shares.	Slip points.
44	R. H. only	1 Horse	$0.20	$0.35	$1.25	$1.25	$1.25			
50	" "	" "	.20	.45	1.35	1.35	1.75			
51	" "	" "	.20	.45	1.75	1.35	1.75			
52	" "	" "	.30	.55	2.25	1.50	2.00			
53	" "	1 or 2 Horse	.30	.55	2.50	1.50	2.00	$0.30	$0.40	$0.10
54	" "	" "	.35	.65	2.75	1.75	2.25	.30	.45	.10
55	" "	" "	.35	.70	2.75	1.75	2.25	.30	.45	.10
56	" "	" "	.40	.75	3.00	1.75	2.50	.35	.50	.10
57	" "	2 or 3 Horse	.40	.85	3.00	1.75	2.50	.35	.50	.10
95	L. H. "	2 Horse	.35	.70	2.75	1.75	2.25	.30	.45	.10
96	" "	" "	.40	.75	3.00	1.75	2.50	.35	.50	.10
97	" "	2 or 3 Horse	.40	.85	3.00	1.75	2.50	.35	.50	.10
501	" "	.....	.40	.85	3.00	1.75	2.50	.....	.50	.10
502	" "	.....	.40	.75	3.00	1.75	2.25	.....	.50	.10
503	" "	.....	.35	.70	2.75	1.75	2.25	.....	.45	.10
601	R. H. only	.....	.40	.85	3.00	1.75	2.50	.....	.50	.10
602	" "	.....	.40	.75	3.00	1.75	2.25	.....	.50	.10
603	" "	.....	.35	.70	2.75	1.75	2.25	.....	.45	.....

For Heavy Shares add each 5c. Jointers, complete, chilled, $2.00. Wheel, complete, $1.00. Handles, one horse, all Nos. single, 45c.; pair, $1.00. 2 and 3 horse, all other Nos., single, 55c.; pair, $1.25.

For price Rolling Coulters, see Oliver Plow pages.

EXTRAS FOR IRON BEAM SYRACUSE PLOWS.

Nos			Common shares.	Cutter shares.	Cast Lands.	Moulds, chilled.	Beams.	Slip shares.	Slip points.
3-78	R. H. only	2 Horse	$0.35	$0.45	$0.55	$2.75	$3.50	$0.45	$0.10
2-78	" "	2 "	.35	.45	.65	3.00	4.00	.45	.10
1-78	" "	2 "	.40	.50	.65	3.00	4.00	.50	.10
10-78	" "	3 "	.40	.50	.80	3.50	4.50	.....	.....
20-78	L. H. "	2 "	.35	.45	.65	3.00	4.00	.45	.10
30-78	" "	3 "	.40	.50	.80	3.50	4.50	.50	.....

EXTRAS FOR STEEL BEAM SYRACUSE PLOWS.

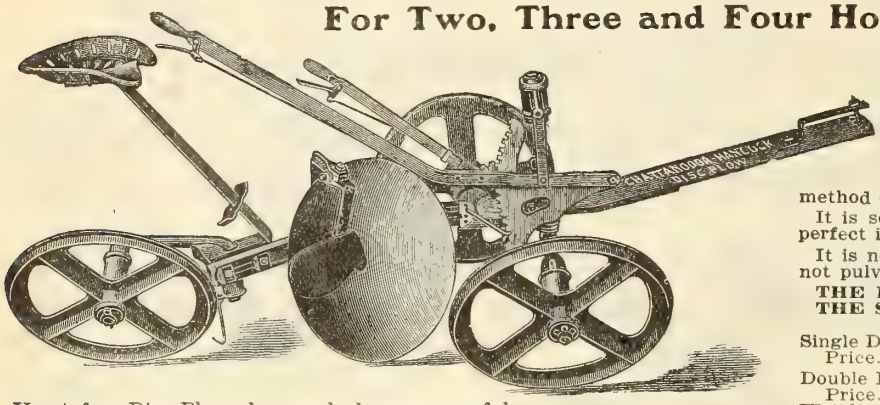
Nos.			Common shares.	Cutter shares.	Cast lands.	Chilled moulds.	Beams.	Standards.	Slip shares	Slip points.
7	R. H. only	2 Horse	$0.35	$0.45	$0.75	$3.00	$3.50	$2.50	$0.45	$0.10
8	" "	2 "	.40	.50	.65	3.00	3.50	2.75	.50	10
15	" "	3 "	.40	.50	1.00	3.50	4.00	3.00	.....	.....
21	L. H. "	2 or 3 Horse	.40	.50	.90	3.00	3.50	2.75	.....	.....
35	" "	3 Horse	.40	.50	1.00	3.50	4.00	3.00	.50	.10

Jointers, complete, chilled, $2.00. Wheels, complete, $1.00. For Heavy Shares, add 5c. each.
Jointer Points for any of above Syracuse Plows, 20c Syracuse Base Bolts, 13c.

CHATTANOOGA-HANCOCK.

THE LATEST IMPROVED DISC PLOW.

For Two, Three and Four Horses.



It handles more cubic inches of soil with less draft than any other plow made; it turns under stalks, trash and weeds completely; it breaks up "hard pan" and pulverizes the soil.

It leaves the ground at bottom of furrow porous and natural; it prepares the soil to withstand either a wet or dry season; it insures better crops than any other method of plowing.

It is so simple in design, so few in parts, and so perfect in construction that anyone can operate it.

It is not a sod plow; it is a pulverizer. You cannot pulverize sod. Everywhere else it is all right.

THE FIRST CUT SHOWS THE SINGLE DISC. THE SECOND, THE DOUBLE DISC.

Single Disc, with double and triple trees.
Price.....**$40.00**
Double Disc, double and triple trees.
Price.....**56.50**
Weight, single disc.....**600** pounds.
Weight, double disc.....**725** pounds.

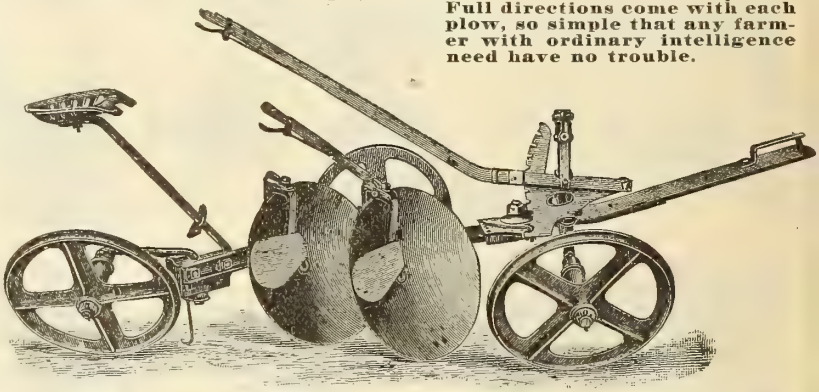
Full directions come with each plow, so simple that any farmer with ordinary intelligence need have no trouble.

Heretofore Disc Plows have only been successful in either very hard or sticky land. They have lacked essential features to make them popular or valuable to the average farmer. Improvements have been added to the Hancock Disc Plow, and we now offer it on its merits.

They are made on the same frame and act on the same principle and what is said about the single disc pertains to the other. It is only a matter of number of horses. If 100 pounds be added to the draft of the single it will cover the double. It will be seen the difference in draft is comparatively slight.

We guarantee our Disc Plow to do good work, not only in hard, dry and sticky ground, but to do good work in any fallow ground, either clean or trashy; in short, to be good anywhere, at any time, and when plowing can be done.

We guarantee against breakage, for 12 months, caused by defects in material or workmanship. **We found it impossible to fill the demand last autumn, and have taken a number of orders for spring delivery. Customers desiring these plows will do well to place their orders as far in advance as possible.**



Disc Plow Extras.

In ordering extras always be sure to give name or number, or send the piece to be duplicated or a correct drawing. Attention to this seemingly small matter will avoid delay.

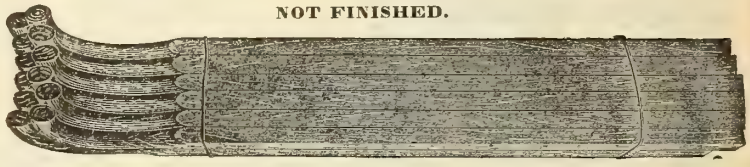
PRICES.

	Each.
Nos. 1 and 2 discs	$3.00
Scraper blade	.50
Scraper, complete	1.00
No. D 116 scraper standard	.50
No. D 119 scraper arm	.50
No. D 132 L. H. lever, complete	1.50
No. D 142 R. H. lever, complete	1.50
No. D 134 R. H. lever, complete	1.50
Disc bolt, with nut	.25
No. D 113 disc bolt nut	.10
Disc box bolt	.10
No. D 101 disc box	1.50
No. D 102 disc holder or journal	1.50
No. D 143 tongue bracket, 1901 style	1.00
No. D 144 R. H. quadrant, 1901 style	1.00
No. D 130 hub washer, outside	.10
No. D 127 wedge	.25
No. D 137 malleable wrench	.15
No. D 138 malleable wrench	.25

Other extras not named on this list can be furnished on application. Do not keep them in stock.

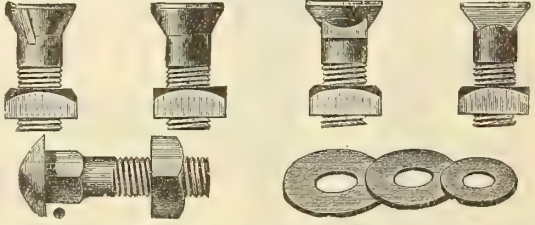
PLOW HANDLES.

NOT FINISHED.



1⅛x2 inches, 5 feet long, per pair	25c.
1¼x2¼ inches, 5 feet long, per pair	30c.
1¼x2¼ inches, 5½ feet long, per pair	35c.
1¼x2¼ inches, 6 feet long, per pair	40c.
1¼x2¼ inches, 7 feet long, per pair	45c.
1½x2½ inches, 5 feet long, per pair	45c.
1½x2½ inches, 5½ feet long	50c.

Plow, Machine and Carriage Bolts and Nuts



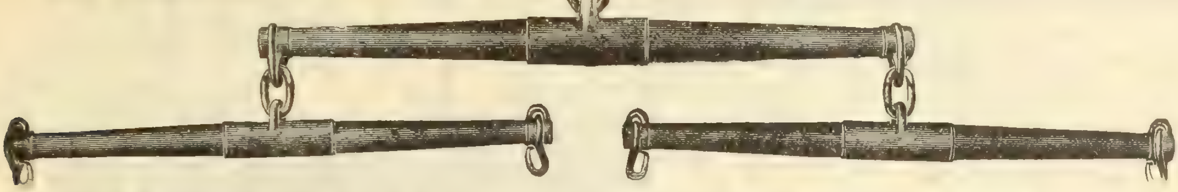
BOLTS FOR CAST PLOWS,
Such as
Minor & Horton, Farmers' Friend, Boy Dixie, Girl Champion.
CHILLED PLOWS:
South Bend, Wiard, Syracuse, Roland.

BASE BOLTS.
Price.....2c. to 3c.

For Other Size Bolts, See Oliver Prices, Page 99.

The Everlasting Tubular Steel Doubletrees. Pattern No. 90.

PLOW DOUBLETREES IN SETS, THREE SIZES. SINGLETREES WITH HOOKS OR RINGS FOR TRACES.



No. 0—For light plowing in moss soil, length 33 inches and 28 inches, fac. list, doz. sets, **$36.00**
Our special price, per set........**$3.00**

No 1—For regular plowing in clay soil, length 36 inches and 30 inches, fac. list, doz. sets, **$39.00**
Our special price, per set........**$3.25**

No. 2—For extra heavy plowing, street making, etc., length 36 to 38 inches and 30 to 32 inches, fac. list, doz. sets, **$51 00.**
Our special price, per set........**$4.25**

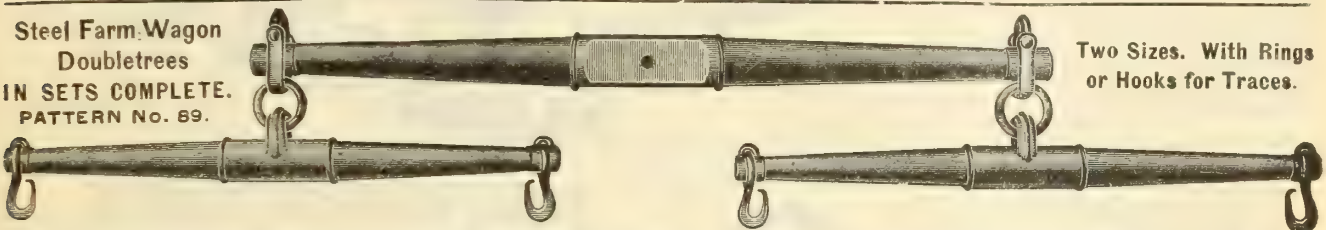
SINGLETREES FOR ABOVE, PAT. No. 92.
24 inches, fac. list, doz., **$8.00** Our special price, **67c. each.**

26 inches, fac. list, doz., **$8.40.** Our special price. 70c. each.
28 inches, fac. list, doz., $8.70. Our special price 73c. each.
30 inches, fac. list, doz., **$10.00.** Our special price 84c. each.
32 inches, fac. list, doz., **$14.20.** Our special price **$1.20** each.

Steel Farm Wagon Doubletrees IN SETS COMPLETE.

PATTERN No. 89.

Two Sizes. With Rings or Hooks for Traces.



No. 2 capacity, 4,000 pounds; evener, 46 to 48 inches; Singletrees, 33 to 34 inches, fac. list, doz. sets, **$63.00** Our special price, per set, **$5.25**
No. 3, capacity, 7,000 pounds; evener, 43 to 45 inches; Singletrees, 34 to 37 inches, fac. list, doz. sets, **$73.00.** Our special price, per set, **$6.00**

SINGLETREES FOR ABOVE, PATTERN No. 85.—THREE SIZES,

No. 1—33 inches, capacity, 1,500 lbs., fac. list, **$15.00.** Our special price, **$1.25** each.
No. 2—33½ inches, capacity, 2,000 lbs., fac. list, **$15.60.** Our special price **$1.30** each.
No. 3—34 to 36 inches, capacity, 4,000 lbs., fac. list, **$20.00.** Our special price, **$1.67** each.

SETS OF WELDED CLIPS.

Clips for Doubletrees.

	Set.	Doz. Sets.
Our No. 36, Fac. No. 77—Southern, one ¾ inch Centre Clip and Hook, welded, with ½ inch hook and two ½ inch End Clips, welded, as used on our 36 inch Southern Doubletrees. List, $3.30........	**$ .25**	**$2.50**
Our No. 36 and 40, Fac. No. 76—Pennsylvania, one ¾ inch Centre Clip and Hook, welded with ¾ inch hook and two 9-16 inch End Clips, welded, as used on our 36 and 40 inch Heavy Pennsylvania Doubletrees. List, $5.30......	**.35**	**3.50**

Clips for Singletrees.

	Set.	Doz. Sets.
Our No. 26, Fac. No. 75—One Centre ½ inch Clip, welded, and two ⅜ inch End Clips, welded, with 5-16 inch hooks as used on our 28 inch Singletrees. List, $2.10................	**$ .15**	**$1.25**
Our No. 30, Fac. No. 74—One Centre 9-16 inch Clip, welded, and two 7-16 inch End Clips, welded, with ⅜ inch hooks as used on our 30 and 32 inch Heavy Singletrees. List, $3.00..	**.20**	**2.00**
Our No. 34, Fac. No. 73—One Centre ⅝ inch Clip, welded, and two 7-16 inch End Clips, welded, with ⅜ inch hooks as used on our 34 and 36 inch Heavy Singletrees. List, $3.20......	**.25**	**2.25**

CHAIN REPAIR LINKS.

10-2..**15c.** doz.
10-1..**20c.** doz.

SIDE OPEN LAP LINKS.

1½ x 2½..8c. each.
¾ x 2½..9c. each.
¾ x 3..10c. each.

OVAL LAP OR OPEN RINGS.

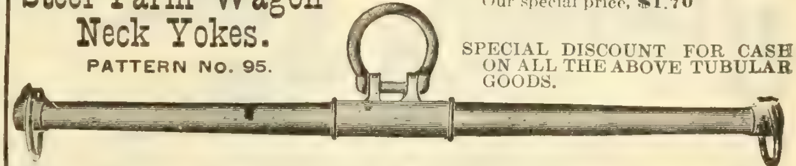
¾ x 2½..8c. each.
1½ x 2½..9c. each.
¾ x 3..10c. each.

Steel Farm Wagon Neck Yokes.

PATTERN No. 95.

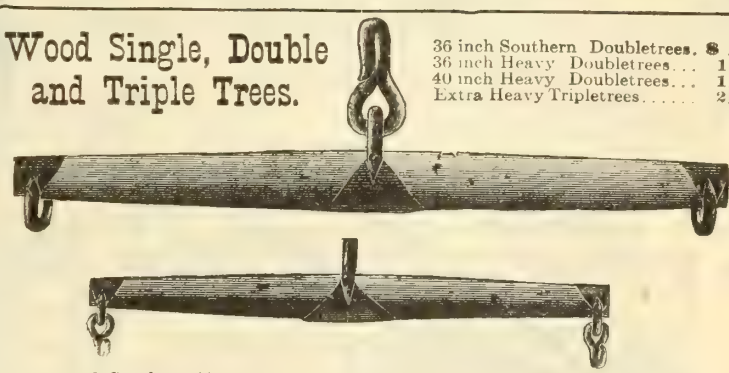
No. 3, 40 inches, fac. list, **$20.50**
Our special price, **$1.70**

SPECIAL DISCOUNT FOR CASH ON ALL THE ABOVE TUBULAR GOODS.



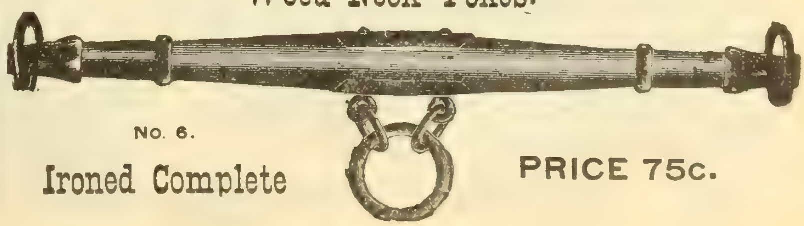
Wood Single, Double and Triple Trees.

36 inch Southern Doubletrees.	**$ .75**
36 inch Heavy Doubletrees...	**1.00**
40 inch Heavy Doubletrees...	**1.10**
Extra Heavy Tripletrees......	**2.00**



26 inch Southern Singletrees..**25c.**
28 inch Extra Nailed Singletrees..**40c.**
30 inch Heavy Singletrees..**50c.**
32 inch Heavy Singletrees..**60c.**
34 inch Heavy Singletrees..**60c.**
36 inch Heavy Singletrees..**75c.**
Wagon Singletrees, 36 inches..75c. each.

Wood Neck Yokes.



NO. 6.

Ironed Complete

PRICE 75c.

Hench & Dromgold's Improved Walking or Riding Spring Tooth Lever Harrow, on Wheels.

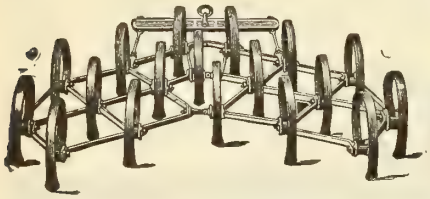
IT is an established fact that land prepared by a Spring Tooth Harrow for wheat is the most acceptable and common sense method, but the complaint of some has been heavy draft. Now, to meet that objection, a set of wheels has been added; consequently the draft has been lessened almost one-half a horse less than on the float spring tooth Harrow; fifteen inches can be worn off the teeth by the use of the lever and the ratchets; the slat can be removed in a second; the lever can be attached to the middle rollers, if so desired, when used altogether for riding, and the wheels, when the teeth are set the desired depth, prevent its going deeper than required by the operator, and consequently it cuts the same depth in case hard or soft ground is encountered alternately. The front wheels are pivoted and the evener is attached to the pivoted wheels, so that the Harrow will draw at ease after the horses, causing it to draw straight, each tooth cutting its own course or way. It is also admirably adapted to putting corn land in condition for seeding wheat, as the depth is easily and immediately regulated by the lever. It is pivoted in the centre and can be uncoupled in a moment without the use of bolts or split keys, and can then be used as a one-horse Harrow, which makes it quite convenient, either half being adjusted with perfect ease.

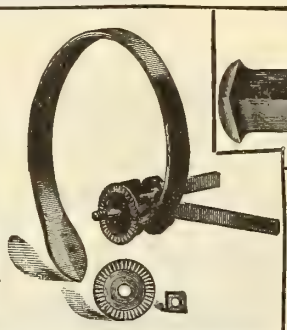
SPECIAL DISCOUNT FOR CASH.

15-Tooth Harrow, without seat . **$18.00** | 19-Tooth Harrow, without seat.. **$20.00**
17-Tooth Harrow, without seat.. **19.00** | 21-Tooth Harrow, without seat.. **21.00**
(If seat is wanted price will be **$1.25** extra.)

HENCH & DROMGOLD'S

All Steel Frame Spring Tooth Harrow. ... ...



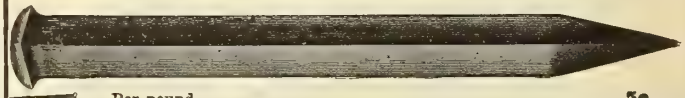


IN the Ratchet Tooth Holder, as shown in the cut, the tooth is securely clamped between two malleable ratchet clips, which engage with the ratchet frame clip, and is held firmly and securely by one bolt to each tooth, on which it rotates as on a pivot. By this arrangement, if the teeth are worn off or cut off as much as fifteen inches, they can be set to run as deep as when new. It is so hinged that either side can be raised straight up or at right angles, for passing stumps or trees.

SPECIAL DISCOUNT FOR CASH.

14-Tooth Harrow	**$12.00**
16-Tooth Harrow	**13.00**
18-Tooth Harrow	**14.00**
20-Tooth Harrow	**15.00**
22-Tooth Harrow	**16.00**

SPIKE HARROW TEETH.



Per pound..... **5c.**

WHIPPLE'S

Supplementary Adjustable Harrow Tooth Points ...

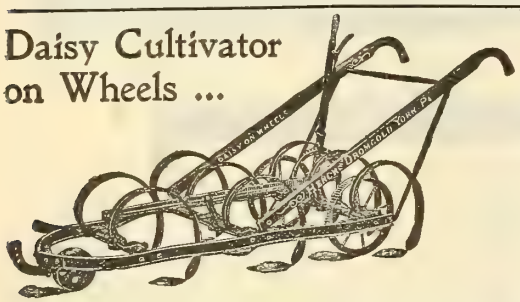
OLD HARROWS MADE AS GOOD AS NEW AT SMALL EXPENSE.

THESE Points are made of a high grade of steel and will outwear the original Points. The ears extend back, and the Point being made of spring metal, allows the ears to be drawn together, clamping the shank firmly and if the old teeth are out of line, the Points being adjustable, can be lined up, so that every tooth will rest on the ground.

These Points will fit any of the old Spring Teeth on the market.

Price, Point.....**10c.** each.

Daisy Cultivator on Wheels ...



THIS style of Cultivator is precisely the same as either half of the regular Spring Tooth Wheel Harrow, with the addition of handles. It is an admirable implement for use with one horse in working crops in rows. We can furnish anyone having the regular Harrow a set of handles and braces, and they can be attached to either half. The front wheel is pivoted, and will draw with ease after the horse, causing it to draw straight. The wheels guide it and cause it to run steady, and each tooth will cut its own way. For turning at the ends the teeth can be raised by the use of the lever, and is very easy to operate. The frame is made of "I" Beam steel; the rollers or bars are also of steel, the castings being malleable, and the best steel used in our teeth, make it one of the most durable and complete Cultivators or small Harrows ever offered to the public. We solicit your patronage.

RETAIL PRICE.

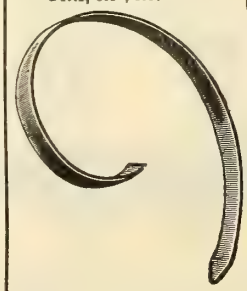
7-Tooth.....	**$9.50**	10-Tooth	**$11.00**
8-Tooth.....	**10.00**	11-Tooth	**11.50**
9-Tooth.....	**10.50**		

Spring Harrow Teeth

FOR LEADING HARROWS,

Including ... ...

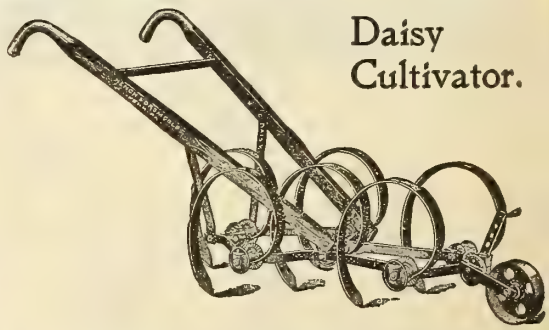
Hench & Dromgold, Stevens, Perry, Childs, U. T. K., Tiger, Buffalo Pitts, etc., etc.



Price.....**40c.** each.

When taken in full sets a special price.

Daisy Cultivator.



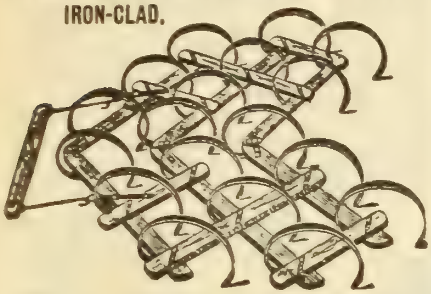
THE cut represents the DAISY CULTIVATOR, with handles for use similar to the DAISY ON WHEELS. This Cultivator has the same ratchet holder as will be found on all of this make of Harrows. It is built with 6 or 8 teeth, but can be used with 5, 6, 7 or 8 teeth, as desired. By simply unbolting the two outside teeth of the 6-tooth Cultivator it can be used with 4 teeth, and by taking out the middle tooth on the right-hand side, and setting the rear tooth in the centre, it makes a 5-tooth Cultivator.

RETAIL PRICE.

Price of 6-Tooth Cultivator, with wheel.....	**$5.50**
Price of 8-Tooth Cultivator, with wheel.....	**6.50**
Price of 10-Tooth Cultivator, with wheel.....	**7.50**

Wood Frame Spring Tooth Harrow.

IRON-CLAD.



This is without doubt one of the best float harrows on the market. It is particularly desirable in cloddy ground, as it combines a clod-crusher and spring-tooth Harrow, the frame being iron-plated underneath and in front, so that it crushes the clods at the same time the teeth stir up the ground, and the frame prevents it sinking too deep. Bolt heads fully protected. Teeth cannot get loose.

16-tooth Harrows	$10.00	20-tooth Harrows	$11.50
18-tooth Harrows	10.75	22-tooth Harrows	12.25

Special Discount for Cash.

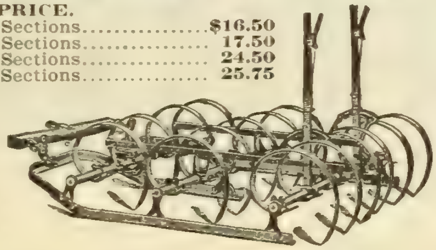
WOOD FRAMES ONLY, WITH REGULAR LINING.

16-tooth Harrows	$6.00	20-tooth Harrows	7.00
18-tooth Harrows	6.50	22-tooth Harrows	7.50

Sled Runner Spring Tooth Lever Harrow.

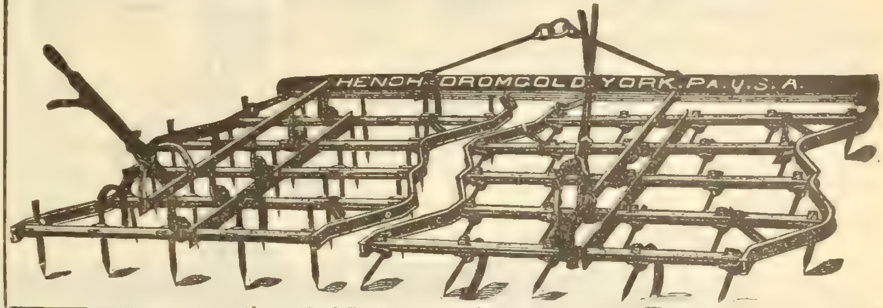
PRICE.

15-tooth, complete, 2 Sections	$16.50
17-tooth, complete, 2 Sections	17.50
23-tooth, complete, 2 Sections	24.50
25-tooth, complete, 2 Sections	25.75



The runner form of frame allows the Harrow to run steadily and smoothly and permits the teeth always to work at a uniform depth. Removable steel shoes are bolted to the underside of all frame bars, and can be replaced at a trifling cost. The tooth bars are 1¼ inch high; carbon steel pipe with ⅜ inch steel rods running whole length inside. No holes in tooth or tooth pipe, a patented tooth clip being used, making it impossible for tooth to slip. Every tooth adjusts individually.

ADJUSTABLE SPIKE TOOTH LEVER HARROW.



50-tooth, 2 Sections	$12.00	75-tooth, 3 Sections	$18.00
60-tooth, 2 Sections	13.25	90-tooth, 3 Sections	20.00

Special Discount for Cash.

This Harrow has a frame of I beam steel, bars of "U" shaped steel, well braced and securely fastened at each end to the frame. This gives the Harrow a double advantage, strength and rigidity, and as a guard against catching into trees and stumps. The teeth are of diamond-shape steel. The runners are formed by the curved tooth extension, which are placed so that the Harrow will free itself from trash better and will carry the Harrow more even distance from the ground than any other Harrow on the market. The teeth are held firmly by a welded eye steel bolt through the clip malleable to roller bar, also the end teeth on the roller bars, which locks and holds the frame firmly together. Each tooth cuts its own course, and can be raised or lowered as desired, and with the lever the teeth can be set to any pitch or cut desired.

GARDENER'S HARROW.

This Harrow is similar to the Baltimore Double Hinge Harrow, only it is made in one section instead of two. It is designed to be used by one horse. We furnish this Harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 24 teeth, cutting 3 feet 8 inches wide.

PRICE.

With 24 teeth	$5.00	With 30 teeth	$5.50

Also furnish the old-style A and Double A Harrows at the following prices:

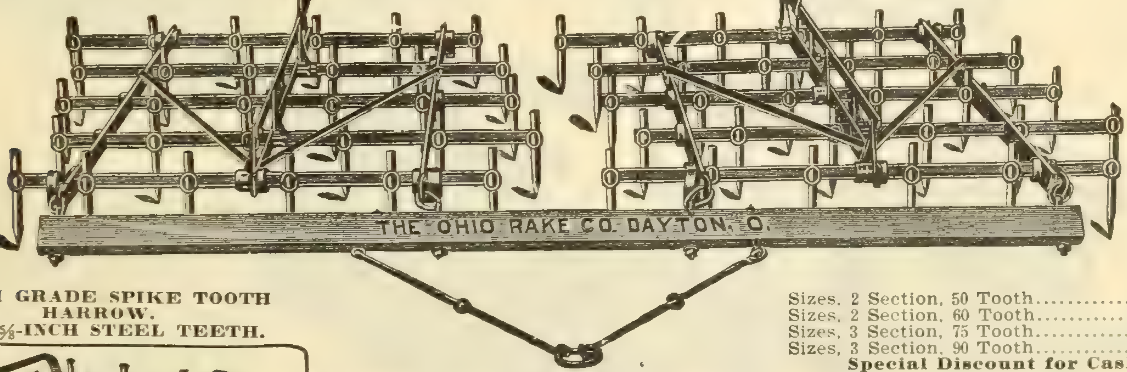
Single "A" with 20 ⅝-inch teeth	$7.00
Double "A" with 26 ¾-inch teeth	12.50
Double "A" with 30 ¾-inch teeth	13.50

Special Discount for Cash.

STEEL "U" BAR LEVER HARROW.

SO ARRANGED THAT THE TEETH CANNOT TRACK.

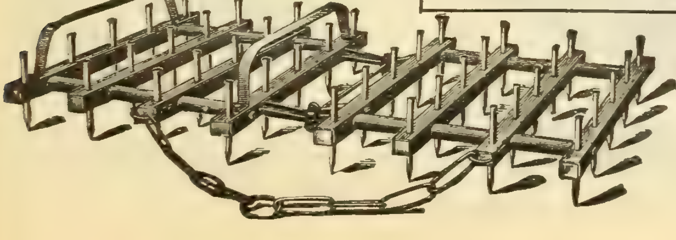
This is a "U" Bar Steel Harrow, with five "U" bars to each section. The teeth are so fastened by a malleable tooth-holder secured by a bolt that may be easily removed for sharpening, or so they may be adjusted to make them cut deep or shallow, as desired. The levers permit the teeth to be lowered for smoothing or set forward at an angle to make them do more work and run more steadily, and also allow the operator to unload trash without stopping his team. It is strong and durable; made of high carbon steel. It is finished nicely, painted and varnished. The heads of the teeth are swedged to prevent losing them, which makes a much more economical and satisfactory Harrow for the farmer to own and the dealer to sell.



A HIGH GRADE SPIKE TOOTH HARROW. WITH ⅝-INCH STEEL TEETH.

Sizes, 2 Section, 50 Tooth	$11.50
Sizes, 2 Section, 60 Tooth	12.75
Sizes, 3 Section, 75 Tooth	17.50
Sizes, 3 Section, 90 Tooth	19.50

Special Discount for Cash.



Baltimore Double Hinge Harrow.

This is a two-section, wood frame, spiked-tooth Harrow. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to another.

PRICE.

40 Tooth	$8.50
48 Tooth	10.00

Special Discount for Cash.

The Bell's Center-Cut Overlapping Disc Harrow.

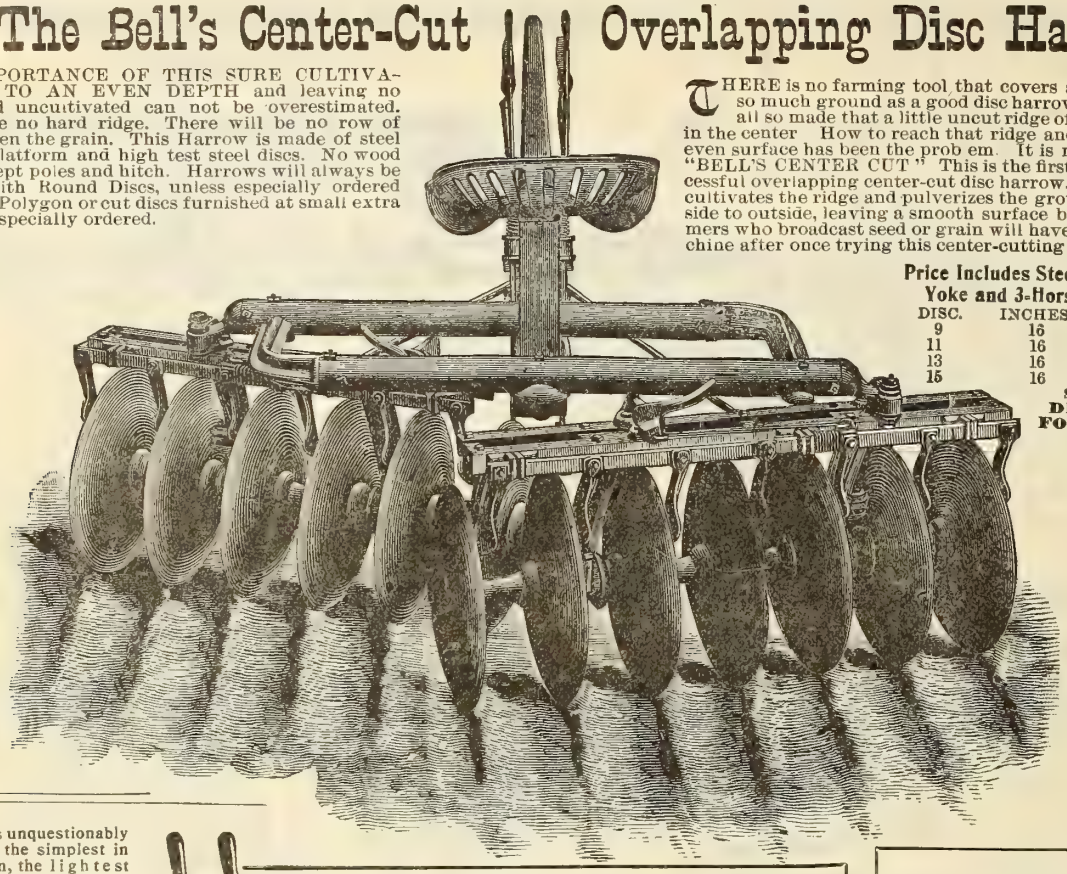
THE IMPORTANCE OF THIS SURE CULTIVATION TO AN EVEN DEPTH and leaving no ground uncultivated can not be overestimated. There will be no hard ridge. There will be no row of weeds between the grain. This Harrow is made of steel angles and platform and high test steel discs. No wood about it except poles and hitch. Harrows will always be furnished with Round Discs, unless especially ordered otherwise. Polygon or cut discs furnished at small extra cost, when especially ordered.

THERE is no farming tool that covers and cultivates so much ground as a good disc harrow, but they are all so made that a little uncut ridge of ground is left in the center How to reach that ridge and cultivate an even surface has been the prob em. It is now solved by "BELL'S CENTER CUT" This is the first and only successful overlapping center-cut disc harrow. This harrow cultivates the ridge and pulverizes the ground from out side to outside, leaving a smooth surface behind it. Farmers who broadcast seed or grain will have no other machine after once trying this center-cutting harrow.

Price Includes Steel Frame Neck Yoke and 3-Horse Eveners.

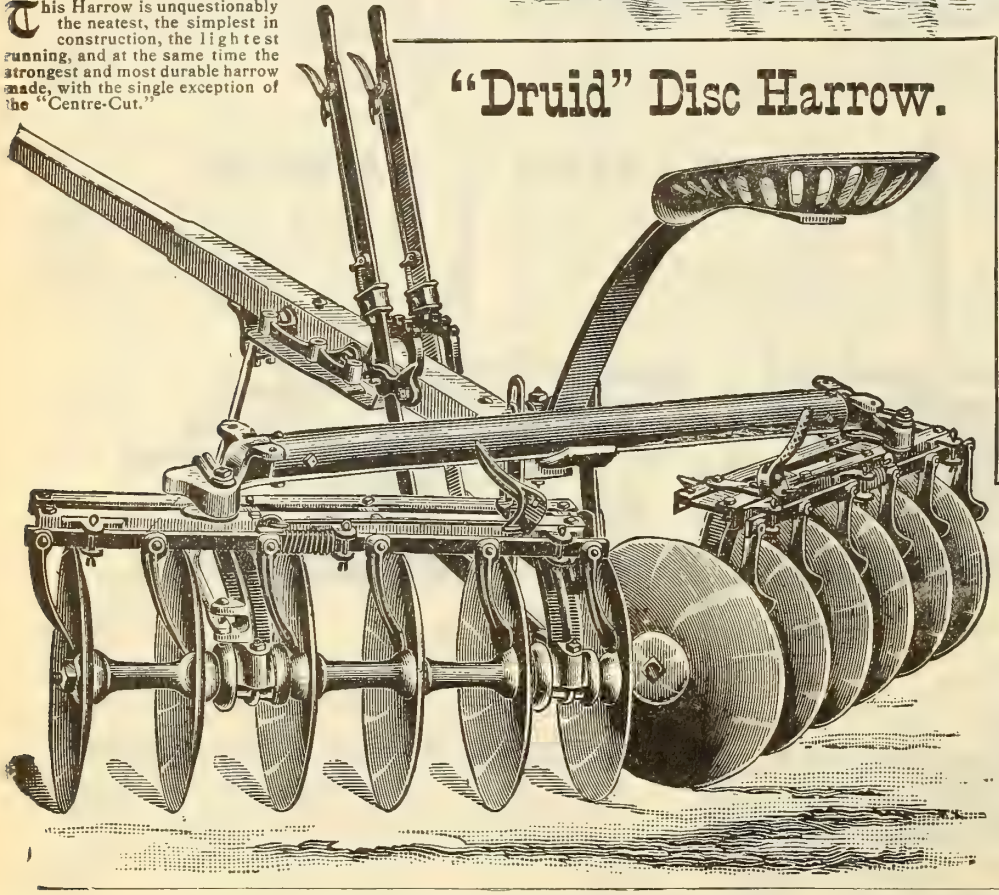
DISC.	INCHES.	PRICE
9	16	$25.00
11	16	26.50
13	16	28.00
15	16	31.00

SPECIAL DISCOUNT FOR CASH



"Druid" Disc Harrow.

This Harrow is unquestionably the neatest, the simplest in construction, the lightest running, and at the same time the strongest and most durable harrow made, with the single exception of the "Centre-Cut."



THIS Harrow is made of steel angles extra heavy crossbeam of steel tubing. No wood about it but the tongue and the hitch. It has many advantages over the wood frame Harrow and, in addition, will last longer. While almost any disc harrow will do fair work under the most favorable circumstances, only the BEST will stand the test at all times and under all the various conditions of soil. The cut shows the Harrow up in excellent shape, giving the construction in detail, including the most perfect set of gang scrapers made. Furnished with neck yoke and whiffletrees.

No.	Disc.	Inches.	Ft. of Cut.	Price.
00	8	16	4	$22.50
0	10	16	5	24.00
1	12	16	6	25.50

Can also furnish a cheaper line of Disc Harrows

Oriole Disc Harrow

The demand among Truckers for a Disc Harrow that will throw the dirt either to or from the centre, has made it necessary for us to offer our ORIOLE, which is constructed in that style. This we carry in the 10 disc size only, and is similar in appearance to the DRUID.

PRICE:
10-16 in. Discs $25.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

LAWN AND FIELD ROLLERS.

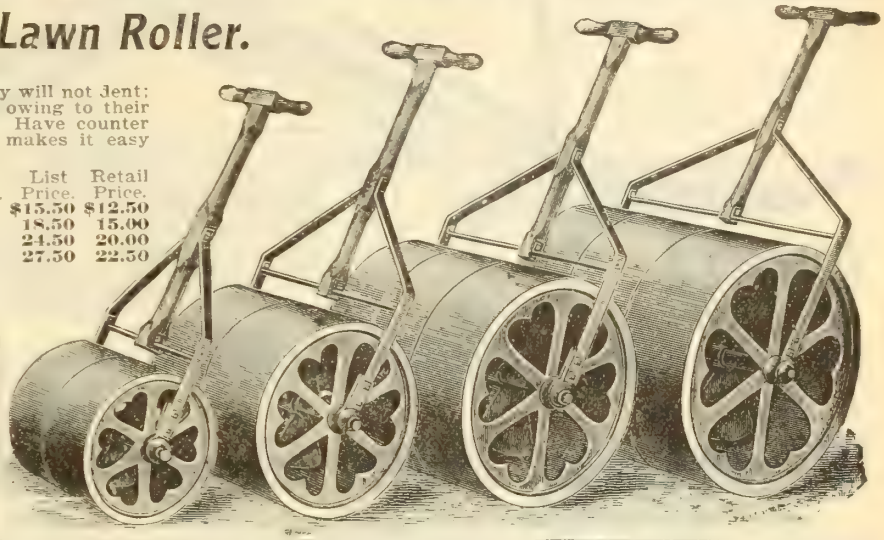
The Baltimore Hand Lawn Roller.

CAST IRON.

These rollers are especially desirable; they will not dent; wet grass and dirt do not cling to them, owing to their highly polished surface and rivetless ends. Have counter balance, which holds up the handle and makes it easy to push.

No.	No. Sec.	Width Face.	Diam. Sec.	Total Length.	Weight.	List Price.	Retail Price.
4	2	10 in.	20 in.	20 in.	250 lbs.	$15.50	$12.50
6	3	8 in.	20 in.	24 in.	300 lbs.	18.50	15.00
9	2	10 in.	24 in.	20 in.	400 lbs.	24.50	20.00
11	3	8 in.	24 in.	24 in.	450 lbs.	27.50	22.50

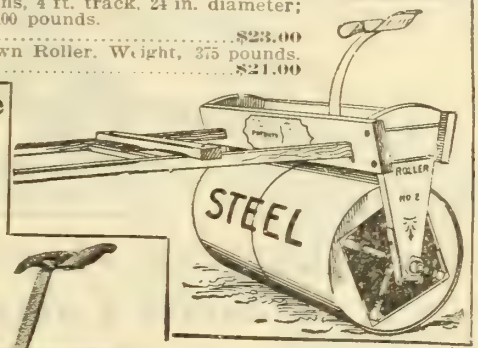
We can furnish above rollers to weigh 50, 100, or 150 pounds more than the weights given, for which add 4 cents per pound.



STEEL ONE-HORSE, OR PONY LAWN ROLLER.

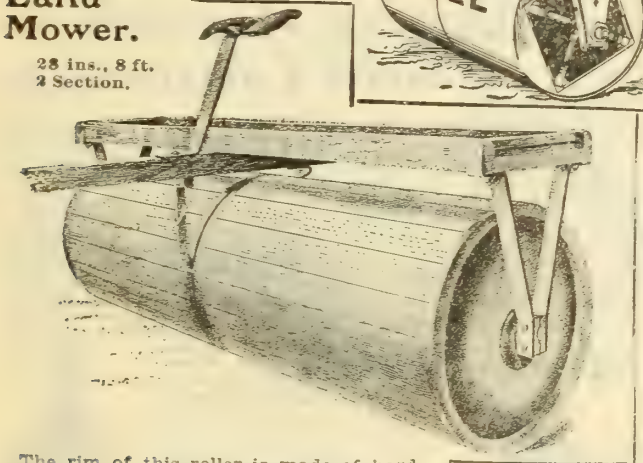
Entire weight of roller, from driver to neck yoke is balanced on main shaft or axle. Has a hardened steel rim rolled and close riveted at the edges; heavy hardwood felloes forced into place by iron wedge blocks and steel spokes with double adjusted lock nuts.

No. 2L.—2 sections, 4 ft. track, 24 in. diameter; Average Weight, 400 pounds.
Retail price.....$23.00
1 Sec., Steel Lawn Roller. Weight, 375 pounds.
Retail price.....$21.00



Baltimore Wood Stave 2 Horse Land Mower.

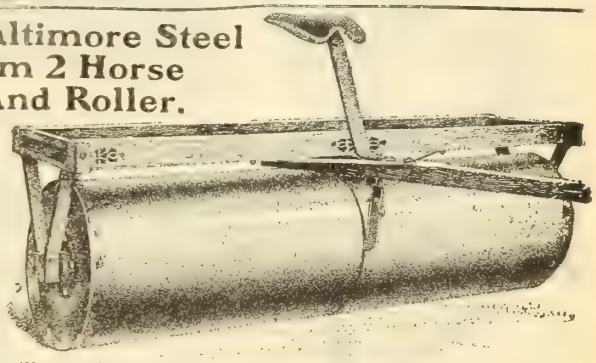
28 ins., 8 ft. 2 Section.



The rim of this roller is made of hard lumber, well seasoned and selected stock, made to fit into the edges of the pressed steel head. By this construction the edges of the rim are protected by sheet steel edges of the head. The whole is held together by three long bolts running lengthwise on the inside of the roller. By so doing the steel heads are clamped together, instead of the pieces being bolted to the head. It is equipped with steel end and centre hanger, low hitch and removable chilled bearings. The axle extends through both roller sections.

PRICE.....$20.00

Baltimore Steel Rim 2 Horse Land Roller.



The illustration on this page shows the constructions of our 24 and 26-inch 6, 7 and 8-foot 2-section steel rim roller, with steel spring and seat. This is one of the most popular rollers.

The heads are pressed steel with removable chilled bearings. It also has centre hanger and low hitch.

PRICE.....$25.00

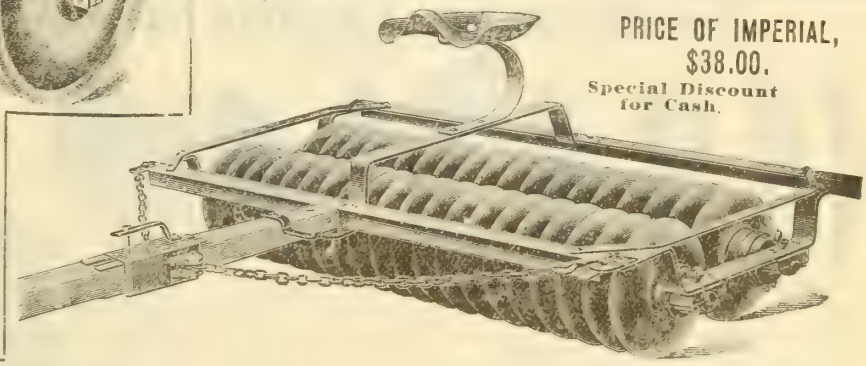
FIELD CAST-IRON ROLLERS.

FULL ASSORTMENT OF SIZES. Prices on application.

Imperial Pulverizer, Clod Crusher, Roller & Leveler

PRICE OF IMPERIAL, $38.00.

Special Discount for Cash.



The "Imperial" is composed of two sets of hollow disc rollers which turn upon a revolving axis, one set being placed directly behind and just in the centre of the other, thereby covering every inch of ground, and effectually pulverizing the hardest clods, and at the same time subjecting the ground to a pressure and packing the soil a couple of inches below the surface, enabling it to retain moisture, and at the same time leaving the surface loose, mellow and level for the reception of the seed.

Most pulverizers tear up the soil and leave it too loose to retain the moisture, or to allow the roots to obtain a firm hold, while others, in their attempt to pack the soil, will press clods beneath the surface, thereby leaving it in a very undesirable condition for the reception of the seed, and, if a harrow is put over the field again, all the clods come to the surface and the field is as rough as ever.

Baltimore and Old Dominion Horse Hoes and Cultivators.

THE Old Dominion has No. 68 plates, and the Baltimore No. 82 plates. . . . .

THE BALTIMORE has bent steel frames. The only difference between the **Baltimore** and **Old Dominion** Cultivators is that the latter is a little lighter, and has straight frame. The Old Dominion Cultivator is sold principally in Virginia and the South, and wherever sold it becomes a favorite.

PRICES.

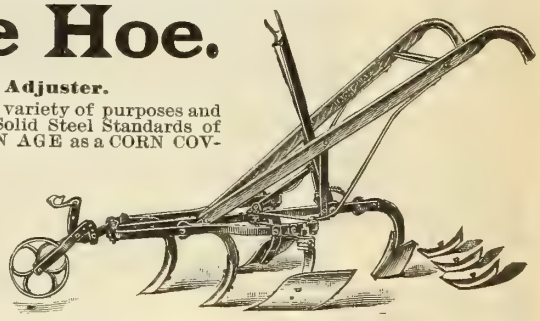
Baltimore Cultivator	$2.75	Old Dominion Cultivator	$2.50
Baltimore Horse Hoe and Cultivator combined, plain	4.00	Old Dominion Cultivator and Horse Hoe, plain	3.75
Baltimore Horse Hoe and Cultivator combined, with wheel	4.50	Old Dominion Cultivator and Horse Hoe, with wheel	4.25

For Lever on Old Dominion or Baltimore, add 60c.

The Iron Age Horse Hoe.

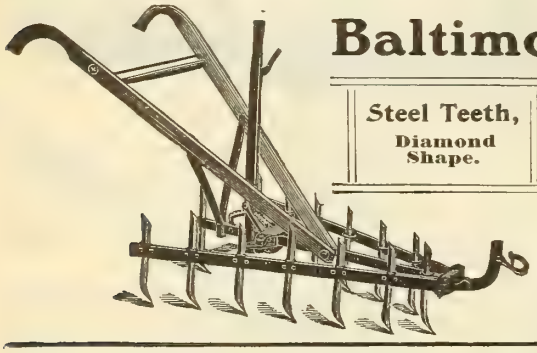
Wheel and Cultivator Combination—with or without Lever Adjuster.

THE IRON AGE is celebrated for solidity of construction, adaptation to a great variety of purposes and ease of handling. The reversible hoes or plows of Horse Hoe are bolted to Solid Steel Standards of their own (not attached to light cultivator standards). The value of the IRON AGE as a CORN COVERER is now well known, also for covering Peas, Potatoes, etc., and for making up rows for root crops it is not surpassed.



PRICES.

Iron Age Cultivator, plain	$3.00
Iron Age Cultivator, with Lever	4.00
Iron Age Horse Hoe and Cultivator, plain	4.30
Iron Age Horse Hoe and Cultivator, with Wheel	4.80
Iron Age Horse Hoe and Cultivator, with Lever and Wheel	5.80
Iron Age Horse Hoe, Cultivator and Corn Coverer combined, plain	5.75
Iron Age Horse Hoe, Cultivator and Corn Coverer combined, with Lever	6.75



Steel Teeth, Diamond Shape.

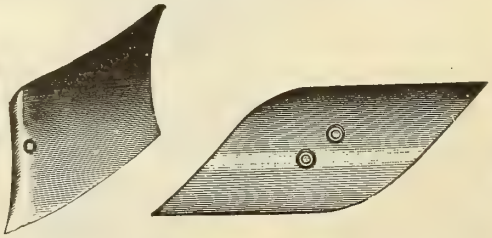
Baltimore Combined Harrow and Cultivator.

AN implement in every way worthy of purchase by all wide-awake farmers; they cannot afford to do without it. Four positions of teeth, doing good work in all crops. This is not to be compared with low-priced harrows, similar in appearance, but made of common material. The sale in this style tool has been phenomenal. At first we sold quite a number, and the indications were for a big trade, but we had no idea that the sales would reach their present proportions. The teeth have four positions—first, the position as shown in cut, in which case it can be used for working very close to small plants. Thoroughly pulverizes, but throws no dirt on plants. Second position, as a straight tooth harrow. Third position, the teeth can be arranged as a smoothing harrow with sharp points down, in order to cut and level the surface. Fourth position the teeth can be set with sheared end down, being less liable to injure young plants.

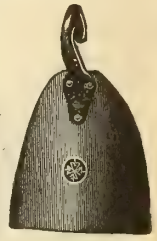
Price, without lever.....$3.25 Price, with lever.....$3.75

Cultivator Points and Steels.

0 1 82 68 10 11



16 12



Leveler.

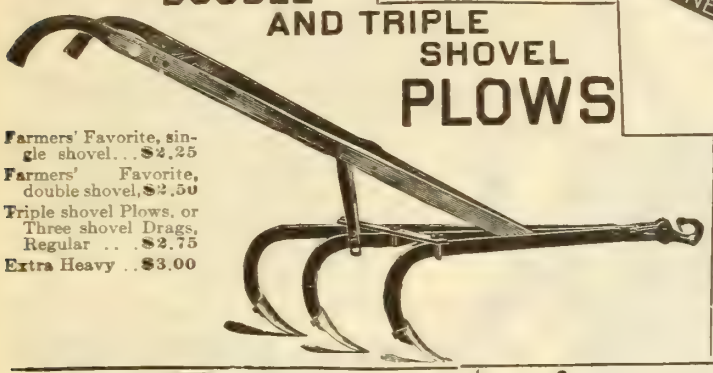
No. 0—1¼ in. Diamond Point Steel	$ .06
" 1—2 " " " "	.06½
" 82—3 " " " "	.07
" 68—Oval or Jersey " "	.07½
" 10—Turn Shovel, right or left, each	.15
" 11—6 inch Sweep, about 7 inches across, each	.15
" 11—8 inch Sweep, about 11 inches across, each	.18
" 16—Turn Shovel, each	.18
No. 12—Horse Hoe, Steel, with Shank or Standard, per pair	$1.00
" 12— " " " without Shank or Standard, per pair	.35
Horse Hoe Attachments complete, in three pieces	1.15
(The No. 12 is represented on the cut of the Iron Age Horse Hoe).	
Wheels for Cultivators, each	.60
Levelers for Cultivators, each	.85
Cultivator Plate Bolts, each	.02
Cultivator Frame Bolts, each	.02

Teeth for Baltimore Combined Harrow and Cultivator, Diamond Shaped Steel, each.... .6½c. Cultivator Handles, finished, per pair..... 75c.

All of the above goods are of Best Steel and Highly Polished. Special Prices on Bolts in Quantities.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

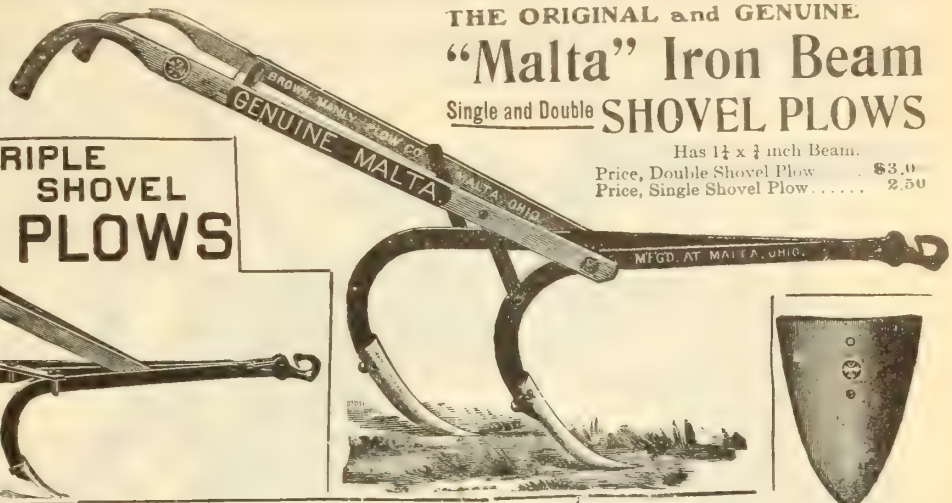
FARMERS' FAVORITE SINGLE, DOUBLE AND TRIPLE SHOVEL PLOWS



Farmers' Favorite, single shovel...$2.25
Farmers' Favorite, double shovel,$2.50
Triple shovel Plows, or Three shovel Drags, Regular ...$2.75
Extra Heavy ..$3.00

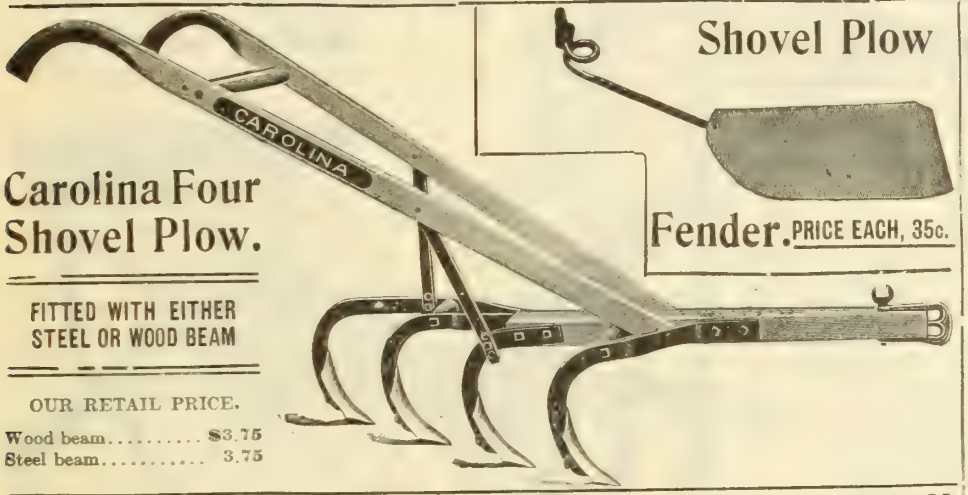
THE ORIGINAL and GENUINE

"Malta" Iron Beam Single and Double SHOVEL PLOWS



Has 1¼ x ¾ inch Beam.
Price, Double Shovel Plow $3.0
Price, Single Shovel Plow 2.50

Carolina Four Shovel Plow.



FITTED WITH EITHER STEEL OR WOOD BEAM

OUR RETAIL PRICE.

Wood beam..... $3.75
Steel beam..... 3.75

Shovel Plow Fender. PRICE EACH, 35c.

Steels

For Single and Double Shovel Plows.

Full and complete line of polished steels for Single and Double Shovel Plows made in both one and two hole styles

5½ and 6 in. D. S. blades, per pair..45c.
7 in. D. S. blades, per pair.....50c.
8 in. D. S. blades, per pair.....70c.
Bull Tongues, per pair.....40c.
10 in. single shovel blades, each....50c.
12 in. single shovel blades, each....60c.
14 in. single shovel blades, each....70c.
16 in. single shovel blades, each....80c.
Triple Shovel Plates, per set of 3....40c.
Triple Shovel Bull Tongues, per set.35c.
Four Shovel Plow steels, 2 and 2½ in. each..... 8c.
Four Shovel Plow Steels, 3½ in., each ..... 9c.
Four Shovel Plow Steels, 4 in., each,10c.

Steels for Iron Age Riding Cultivators.

HILLING SHOVELS.

91 PRICES OF STEELS.

No. 90, Plates, 1¼ inches wide, each.....13c.
No. 91, Plates, 2½ inches wide, each.....14c.
No. 92, Hilling Shovels, per pair.....75c.

STEEL BEAM GEORGIA STOCK No. 1.

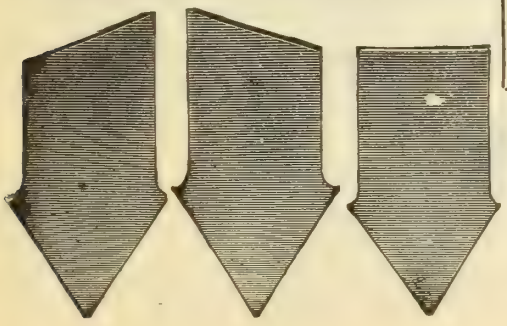
For the purpose of attaching shovel blades or steels of any kind used on Shovel Plows. The beam is made of a plate of steel, formed in the shape of a U bar, the front end being arranged with an adjustable clevis, dispensing with the need of a lap ring. The rear part of the beam forms a steel box for the Plow handles, thus making it impossible to split the handles. Regular Georgia Stock Plow Handles will fit these Plow Stocks

Price $1.25

Extra Heavy Steel Beam Georgia Stock No. 3.

With adjustable landside and rudder. This Plow Stock has an extra long and very strong beam and heavy foot. The construction of this steel beam makes this the best and strongest Plow Stock on the market. Price, $1.50.

STEELS NOT SHAPED.



FOR MALTA, BROWN AND SIMILAR STYLES WALKING AND RIDING CULTIVATORS

Blades, furnished without holes to be fitted, price each.....35c.
Bull Tongues, same as above, each...30c.
Malta Riding Cultivator Blades, complete, with back and bolts, each...60c.
Malta Riding Cultivator Calf Tongues complete with backs and bolts, each 45c.

SHOVEL PLOW HANDLES.

Finished, for Single and Double Shovel Plows, complete with round and rod, per set.....75c.
Finished, without round and rod, per pair. 60c
Finished and bored, right and left, each...30c

Four Nut Shovel Plow Spreader Bolts.

For Beams and Handles, each.....25c.

Hench Champion Steel Walking Cultivator.

WITH SHOVEL BEAM HOISTED AND HELD UP BY SPRINGS ALONE.

PRICES.

4-shovel Pin Hoe	$16.50
6-shovel Pin Hoe	16.50
8-shovel Pin Hoe	18.00
Seventh or Middle Beam	1.50
4-shovel Spring Hoe	19.00
6-shovel Spring Hoe	20.00
8-shovel Spring Hoe	22.50
Seventh or Middle Shovel	2.25

In addition to the regular shovels, 2 bull tongues and 2 hilling shovels accompany each machine.

Special Discount for Cash.

STEELS FOR HENCH & DROMGOLD'S RIDING CULTIVATOR AND CHAMPION WALKING CULTIVATOR.

2½ in. Plain Shovel, O. S., without revolving backs	15c.
2½ in. Plain Shovel, N. S., with revolving backs	20c.
3½ in. Plain Shovel, O. S., without revolving backs	20c.
3½ in. Plain Shovel, N. S., with revolving backs	25c.
6x11 Blade, with revolving back, for 4-shovel Cultivator	40c.
Hilling Shovels	50c.

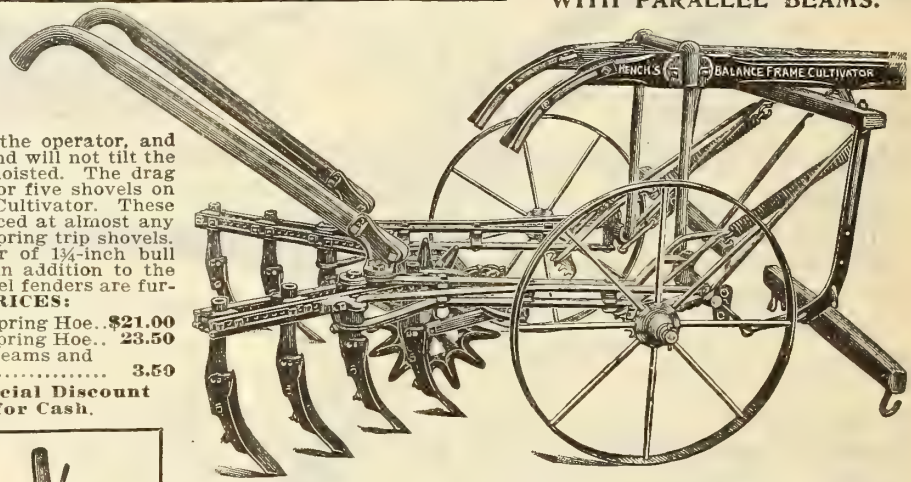
Hench Balance Frame Walking Cultivator.

WITH PARALLEL BEAMS.

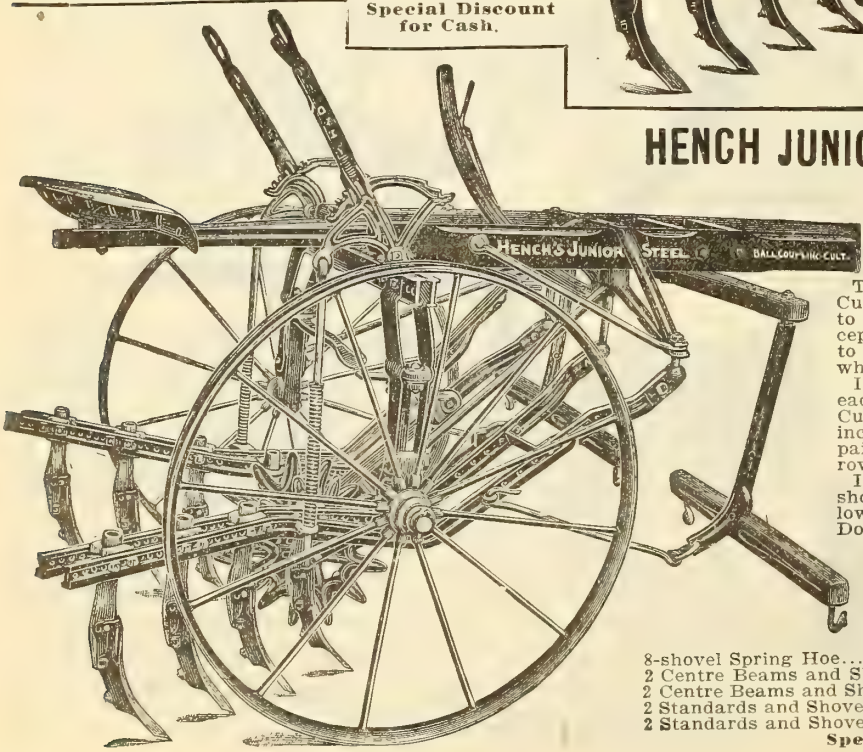
The shovel gangs are coupled by cone and socket bearing to the axle, which is 6½ inches in front of the wheel spindles, and when the shovel gangs are raised up the entire frame of the machine drops down about 6 or 7 inches, and this weight, together with the aid of the springs, raises the drag bars without any assistance whatever from the operator, and holds them up. It is a perfect balance and will not tilt the tongue up when the shovel gangs are hoisted. The drag bars can be furnished with three, four or five shovels on each gang, making it 6, 8 or 10 shovel Cultivator. These shovel standards can be adjusted or placed at almost any position required. It is also made with spring trip shovels. Each machine is furnished with a pair of 1¾-inch bull tongues and a pair of hilling shovels, in addition to the other shovels. Either rotary or sheet steel fenders are furnished with either style of machine. **PRICES:**

6-shovel Pin Hoe	$17.50	6-shovel Spring Hoe	$21.00
8-shovel Pin Hoe	19.00	8-shovel Spring Hoe	23.50
2 Centre Beams and Shovels	2.00	2 Centre Beams and Shovels	3.50

Special Discount for Cash.



HENCH JUNIOR STEEL BALL COUPLING CULTIVATOR.



The annexed cut represents our Hench Junior Cultivator, with 36-inch wheels. It is similar to our Twentieth Century (see next page), except the axle standard which allows the wheels to pass over the axle, and is recommended where extremely narrow rows are not cultivated.

It is made with three, four or five shovels on each gang, making it six, eight or ten shovel Cultivator for rowed crops, with a pair of 1¼-inch bull tongues for first cultivation, and one pair of hilling shovels for last cultivation of rowed crops.

It can be rigged with two middle beams and shovels, making a 12-shovel Cultivator for fallow cultivation. It also can be furnished with Double Row Corn Planter Attachment, as shown in the Twentieth Century Cultivator, Fig. 56 (see next page).

PRICES.

6-shovel Pin Hoe	$27.00
6-shovel Spring Hoe	30.00
8-shovel Pin Hoe	28.50
8-shovel Spring Hoe	32.50
2 Centre Beams and Shovels, Pin Hoe	2.50
2 Centre Beams and Shovels, Spring Hoe	3.50
2 Standards and Shovels to make 10-shovel Pin Hoe	2.00
2 Standards and Shovels to make 10-shovel Spring Hoe	2.75

Special Discount for Cash.

(Fig. 50.

Hench's 20th Century Steel Ball Coupling Cultivator

This is a perfect machine for both rolling and level land.

Pivot axle, easy of adjustment, simple arrangement to accommodate the machine for narrow rows. Can be furnished either for pin or spring hoe.

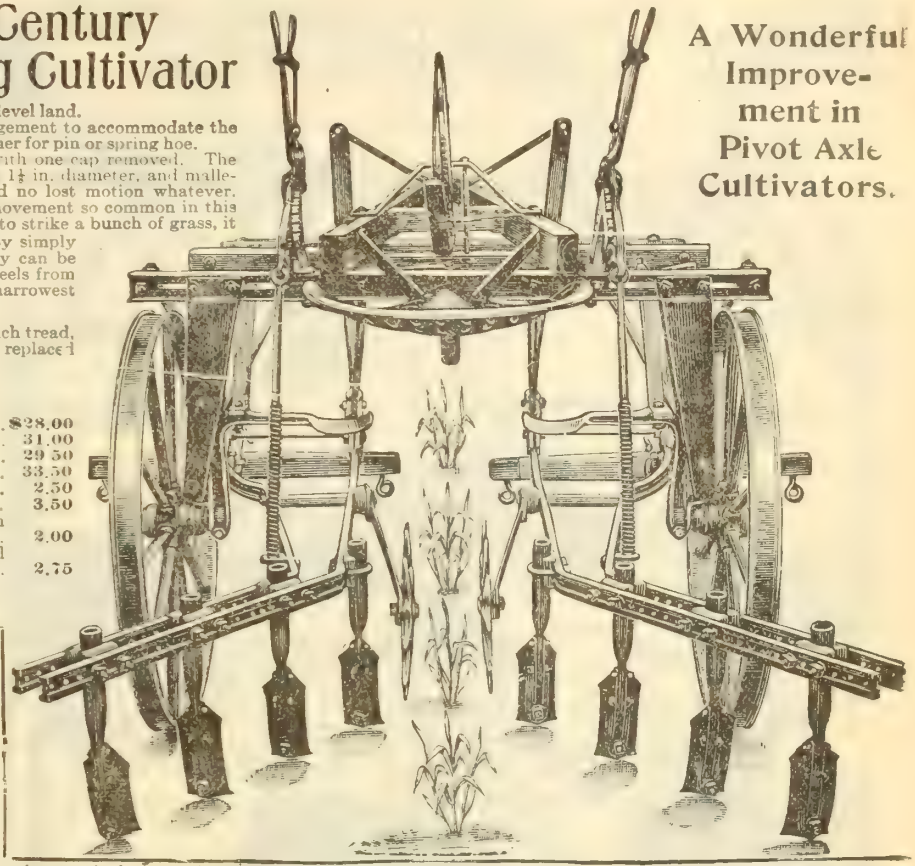
Fig. 51 shows the ball and socket coupling with one cap removed. The shovel gangs are coupled in front by steel balls, 1¼ in. diameter, and malleable sockets having larger running surface and no lost motion whatever. This simple arrangement prevents the lateral movement so common in this style of machine, so that, if the shovel happens to strike a bunch of grass, it will not glance around, but will cut it out. By simply slacking four nuts on the wheel standards they can be moved in or out on the axle, narrowing the wheels from 46 inches, the widest point, to 34 inches, the narrowest point, between the wheels.

Wheels 32 inches high, made of steel, with 2 inch tread, malleable hubs, removable boxes, which can be replaced if worn out. Weight, about 375 pounds.

PRICES.

6 Shovel Pin Hoe	$28.00
6 Shovel Spring Hoe	31.00
8 Shovel Pin Hoe	29 50
8 Shovel Spring Hoe	33.50
2 Centre Beams and Shovels, Pin Hoe	2.50
2 Centre Beams and Shovels, Spring Hoe	3.50
2 Standards and Shovels to make 10-Shovel Pin Hoe	2.00
2 Standards and Shovels to make 10-Shovel Spring Hoe	2.75

SPECIAL DISCOUNT FOR CASH.



A Wonderful Improvement in Pivot Axle Cultivators.

20th CENTURY CORN PLANTER ATTACHMENT.

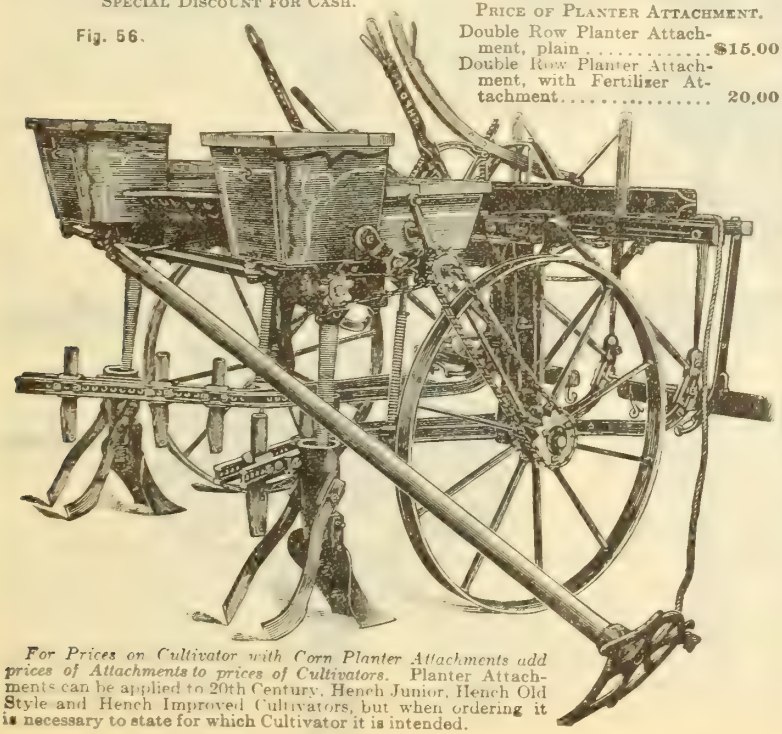
Fig. 56 shows the 20th Century Cultivator with double row planter and fertilizer attachment, rigged, for planting 2 rows. The corn planter is also furnished without the fertilizer attachment.

All Cultivators are made so that the planter can be attached at any time. It will plant accurately, almost any depth required, one grain 11, 13 or 15 inches, or two grains 22, 26 or 30 inches apart, and additional dies can be furnished at a small cost for sowing ensilage corn or for peas, beans and other seeds.

It can be set to plant rows from 2 feet 10 inches to 4 feet apart. The cost for a 2-row planter attachment is but a trifle more than a single row.

SPECIAL DISCOUNT FOR CASH.

Fig. 56.

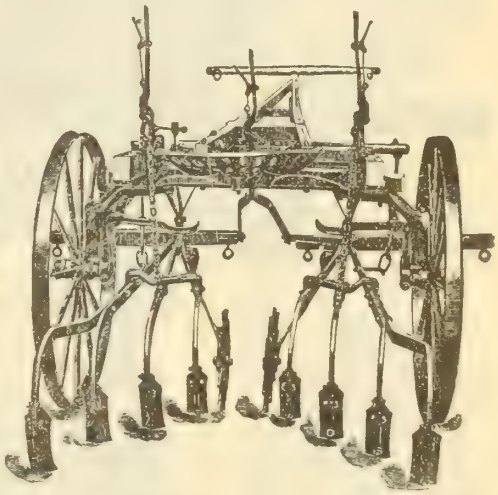


PRICE OF PLANTER ATTACHMENT.

Double Row Planter Attachment, plain	$15.00
Double Row Planter Attachment, with Fertilizer Attachment	20.00

For Prices on Cultivator with Corn Planter Attachments add prices of Attachments to prices of Cultivators. Planter Attachments can be applied to 20th Century, Hench Junior, Hench Old Style and Hench Improved Cultivators, but when ordering it is necessary to state for which Cultivator it is intended.

The Hench Improved Pivot Axle Cultivator.



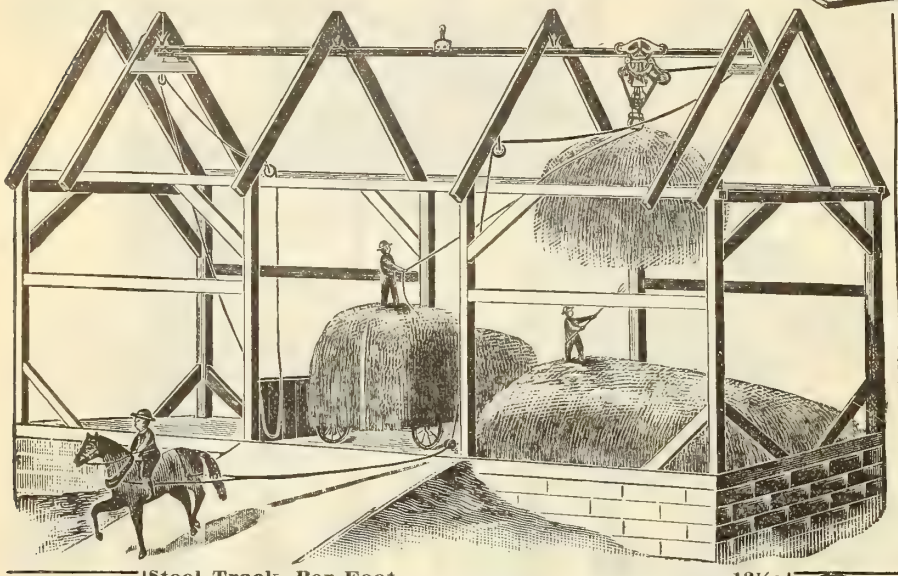
It can be narrowed from 47 inches to 36 inches between the wheels, thus enabling the operator to cultivate rows from 28 inches up to 4 feet apart. We use steel wheels 36 inches high with renewable boxes. The spindles are 1¼ inches round steel, 8 inches long, and can be renewed very quickly by any blacksmith. We furnish it with either three or four shovels on each side, or drag bar as desired. Also a pair of hilling shovels and one pair of bull tongues.

HENCH IMPROVED CULTIVATOR

6 Shovel Pin Hoe	$27.00	2 Centre Beams and Shovels Pin Hoe	$2.50
6 Shovel Spring Hoe	30.00		
8 Shovel Pin Hoe	29.00	2 Centre Beams and Shovels Spring Hoe	3.50
8 Shovel Spring Hoe	33.00		

SPECIAL PRICES FOR CASH.

HAY CARRIERS.



Steel Track, Per Foot..... 12½c.

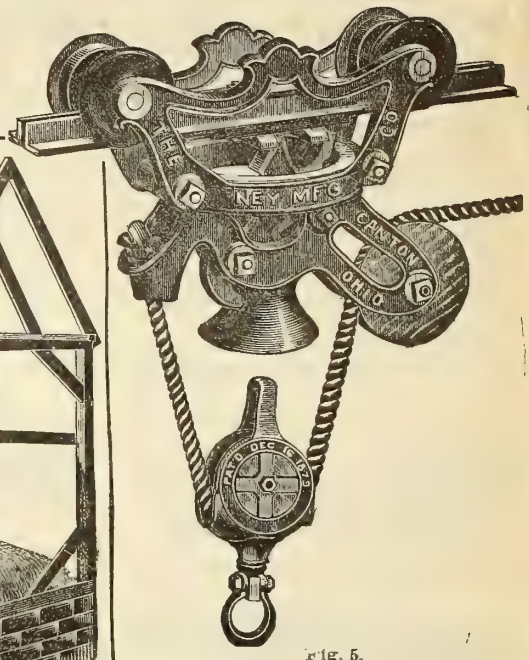


Fig. 5.

NEY'S SWIVEL REVERSIBLE CARRIER.

For Double-Angle Steel Track.

This Carrier, seen in operation in annexed cut of barn, cannot pass the bumper or trip block while in operation, and is easily and quickly reversed from the floor. It is constructed entirely of malleable iron; travelers and sheaves revolve on turned steel bushings.

Price..... **$4.50**

Special Discount for Cash.

NEY'S WOOD TRACK SWIVEL REVERSIBLE CARRIER.

FOR 4x4 WOOD TRACK.

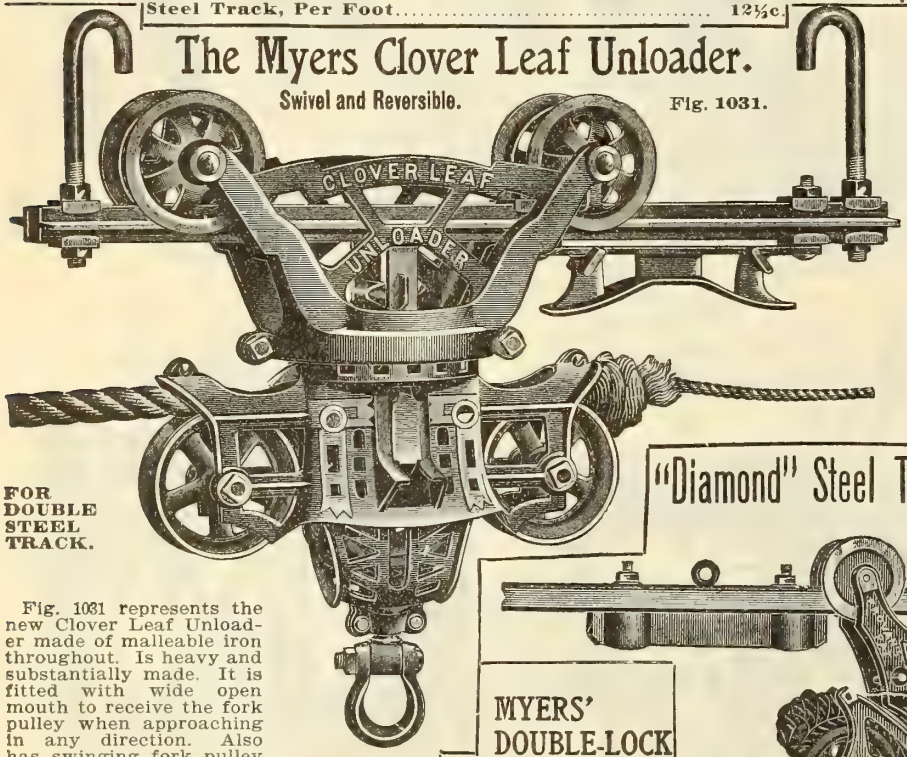
This Carrier is made entirely of malleable iron. All wheels revolve on turned iron bushings. Contains no springs, lugs or pins to break or wear out. Will not pass the trip block while in operation.

Price..... **$4.50**

Special Discount for Cash.

The Myers Clover Leaf Unloader.

Swivel and Reversible. Fig. 1031.



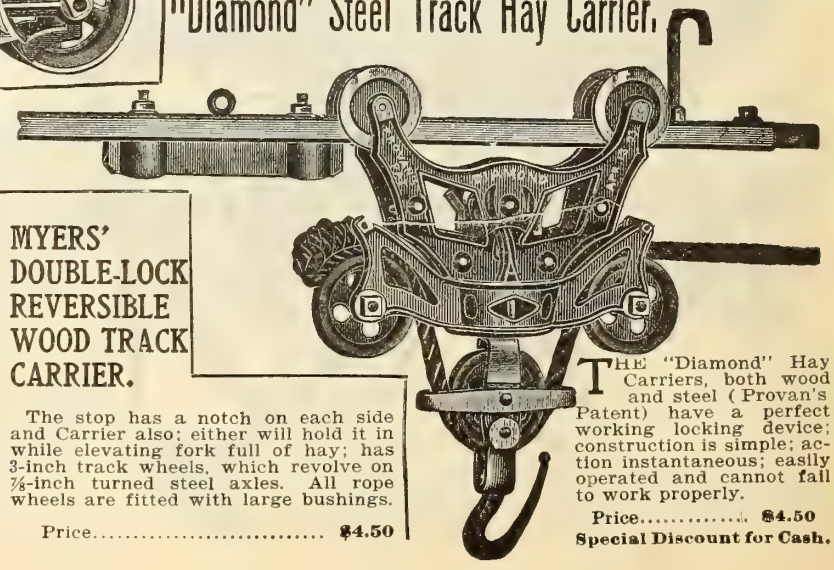
FOR DOUBLE STEEL TRACK.

Fig. 1031 represents the new Clover Leaf Unloader made of malleable iron throughout. Is heavy and substantially made. It is fitted with wide open mouth to receive the fork pulley when approaching in any direction. Also has swinging fork pulley which relieves the carrier from all strain when drawing hay over a high beam or into a well-filled mow. The track wheels revolve on ⅞-inch turned steel axles. The rope sheaves have longer hub than any other make of carrier.

The lock is composed of three parts, and has no springs. The locking device grasps the fork pulley on either side and permits it to swing free.

Price..... **$4.50**

"Diamond" Steel Track Hay Carrier.



THE "Diamond" Hay Carriers, both wood and steel (Provan's Patent) have a perfect working locking device; construction is simple; action instantaneous; easily operated and cannot fail to work properly.

Price..... **$4.50**

Special Discount for Cash.

MYERS' DOUBLE-LOCK REVERSIBLE WOOD TRACK CARRIER.

The stop has a notch on each side and Carrier also; either will hold it in while elevating fork full of hay; has 3-inch track wheels, which revolve on ⅞-inch turned steel axles. All rope wheels are fitted with large bushings.

Price..... **$4.50**

HAY TOOLS AND FIXTURES

Fig. 47.

HARRIS DOUBLE HARPOON FORK.

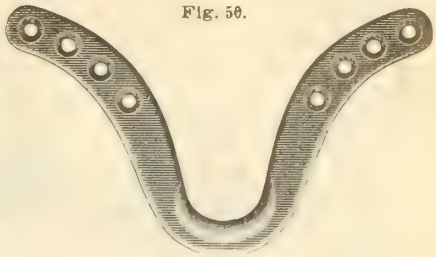
Price.....$2.50

Fig. 49.

SWIVEL ROPE HITCH.

Price.....20c.

Fig. 50.



RAFTER BRACKET.—Fig. 50.

PRICE.

Malleable.....6c.
Steel.....6c.

MYERS-CENTER TRIP ADJUSTABLE SLING

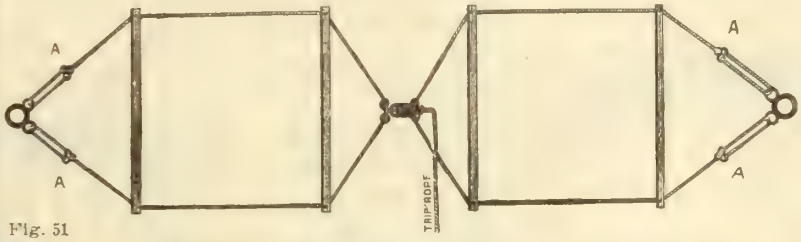


Fig. 51

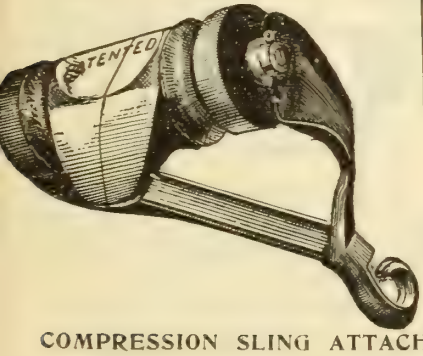
CENTRE TRIP ADJUSTABLE SLING.

Price.....$2.00

Fig. 48.

Genuine Nellis Fork.

Price...$2.00



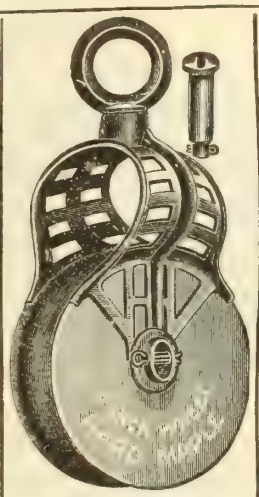
COMPRESSION SLING ATTACHMENT.—Fig. 52.

Price.....$2.50

Fig. 53.

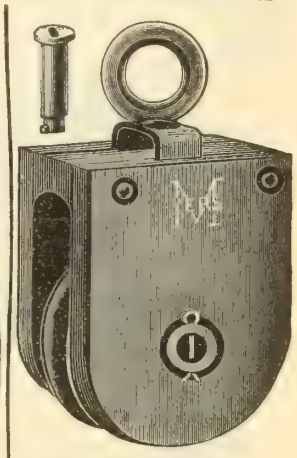
Wood Track Hook

Wood.....8c.
Steel.....8c.



KNOT-PASSING PULLEY.—Fig. 55.

Price.....30c.



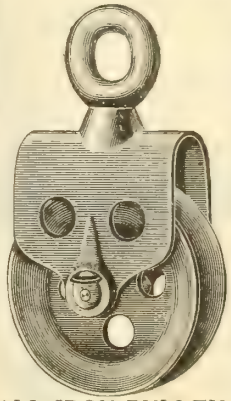
WOOD FRAME PULLEY.—Fig. 56.

Price.....25c.

Fig. 54.

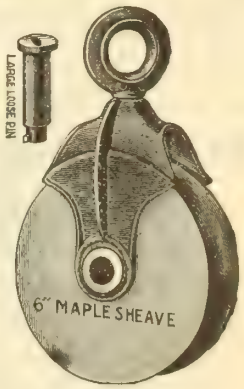
Floor Hook

Price.....8c.



ALL-IRON PULLEY. Fig. 57.

Price.....20c.

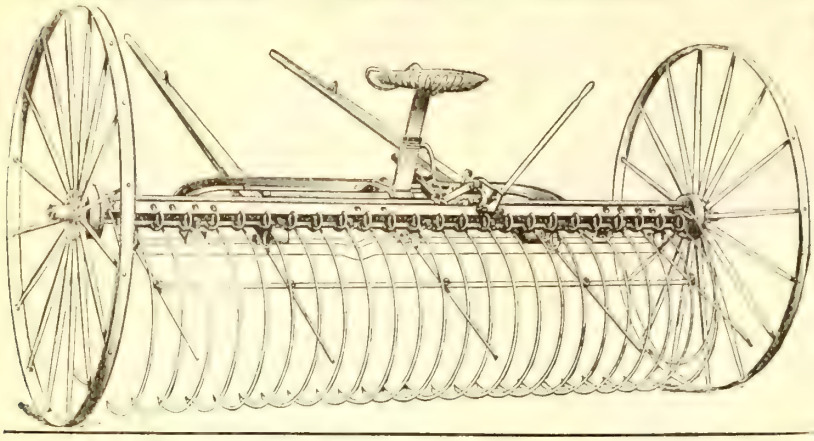


MAPLE SHEAVE PULLEY.—Fig. 58.

Price. 20c.

PRICES.

Fig. 47.—Harris Double Harpoon Fork	$1.00
Fig. 48.—Genuine Nellis Harpoon Fork	2.00
Fig. 49.—Swivel Rope Hitch	.20
Fig. 50.—Rafter Bracket, malleable	.06
Fig. 50.—Rafter Bracket, steel	.06
Fig. 51.—Myers' Centre Adjustable Trip Sling, with 4 ft. sling stick	2.00
Fig. 52.—Myers' Compression Sling Attachment	2.50
Fig. 53.—Hanging Hook for Wood Track	.08
Fig. 53.—Hanging Hook for Steel Track	.08
Fig. 54.—Floor Hook	.08
Fig. 55.—Knot-Passing Pulley. Has strong iron frame, swivel eye, with inside flange to protect rope. Has 6-inch sheave of thoroughly seasoned hard maple on hollow loose pin	.30
Fig. 56.—Wood Frame Pulley. An exceptionally good pulley made of hard wood, well seasoned. Furnished in either hook or eye	.25
Fig. 57.—All-Iron Pulley. Has 5-inch sheave, swivel eye, well made, finished in baking japan	.20
Fig. 58.—Maple Sheave Pulley. 6-inch sheave, boiled in oil, cast frame, and holder pin	.20
Myers' Four-tine Grapple Hook	4.50
Extra Trips or Stops for Cars	.40
Steel Track, per foot	12½c.

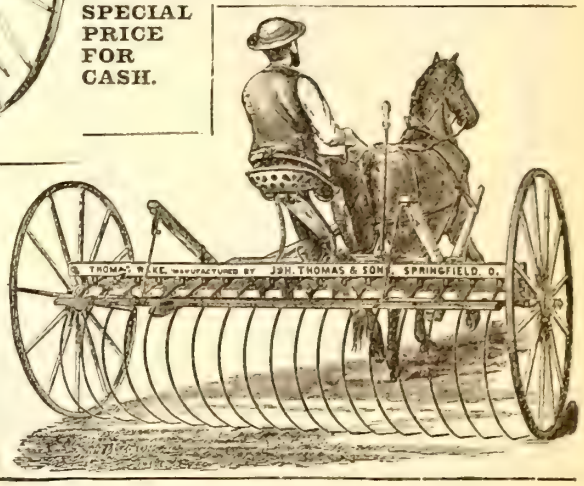


Baltimore Rakes.

These rakes can be used for one or two horses, the shafts sliding together and forming a pole. Made in both wood and steel. Disengages noiselessly and without jar or strain. It has steel teeth, made from the best crucible steel, and tempered in oil.

Baltimore Self-Dumping, wood	$20.00
Baltimore Self-Dumping, steel	21.00
Baltimore Hand-Dumping, wood	17.00
Baltimore Hand-Dumping, steel	19.00

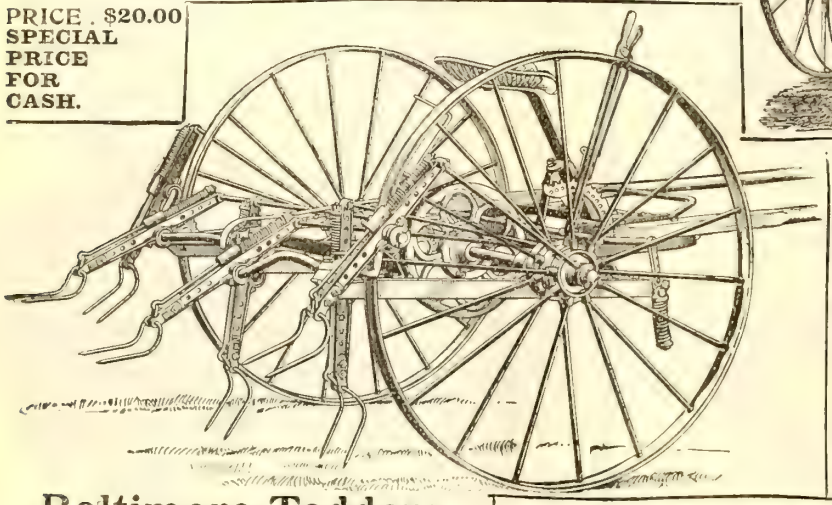
SPECIAL PRICE FOR CASH.



Celebrated Thomas Rake.

This Rake has long been known in the agricultural world as one of the best rakes made. It rarely requires any repairs; will rake corn stalks, as well as the heaviest hay; has a long and good spring over each tooth; an overhanging cleaner with roller turns the hay in dumping and brings green hay on top.

PRICE . $20.00 SPECIAL PRICE FOR CASH.



Hay Tedder Forks.

Always on hand, stock of Forks for leading styles of Hay Tedders.

PRICE. . . . . 25 CENTS.

Special Prices in Quantities

When ordering Tedder Forks always state name of Tedder, year it was made if possible and whether Fork is in one or two pieces.

Baltimore Tedders.

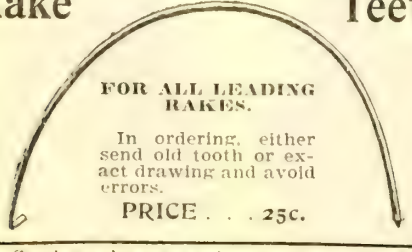
The ground wheels are closer together than on most Tedders. The outside forks kick the hay up loose after the wheels pass over it. Forks are made of crucible steel, oil tempered. One of the simplest and most comprehensive Tedders on the market.

PRICE OF BALTIMORE TEDDER.

Wood, 6-fork	$20.00
Steel, 6-fork	22.00
Steel, 8-fork	35.00

Special Price for Cash.

Rake Teeth.

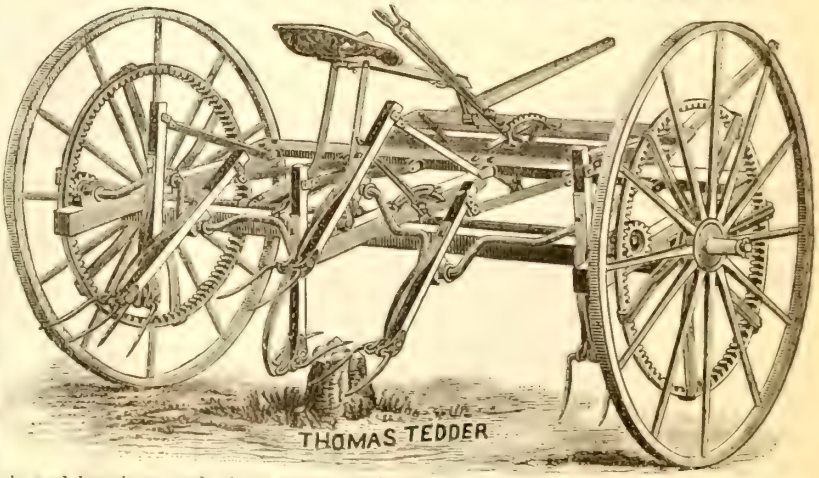


FOR ALL LEADING RAKES.

In ordering, either send old tooth or exact drawing and avoid errors.

PRICE . . . 25c.

GENUINE THOMAS TEDDER.

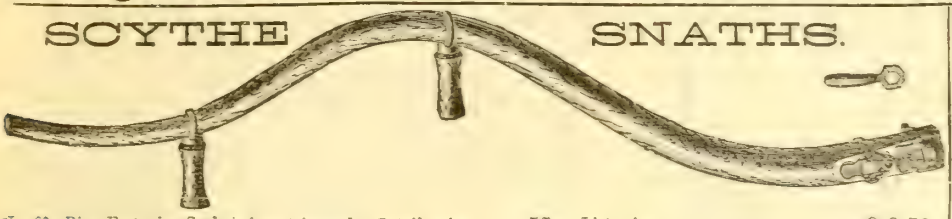


Steel cranks are used, smooth at all the journals and bearings, reducing wear and friction to a minimum. A regular pitch fork style of kicker is used. Fork spring is of steel. This machine is built in a most substantial manner, and of the very finest and strongest material, and will properly handle the heaviest hay.

PRICE . . . . . $34.00 **Special Price for Cash.**

Scythes, Snaths, Cradles, Etc.

SCYTHE SNATHS.



No. 80—Ring Fastening Socket, iron trimmed. Retail price.....55c. List price..... .....$ 9.50
No. 55—Patent Loop, solid plate, iron trimmed. " .....65c. " 11.50
No. 100—Two Rings, Bush Snath. " .....70c. " 12.50

SCYTHE STONES.

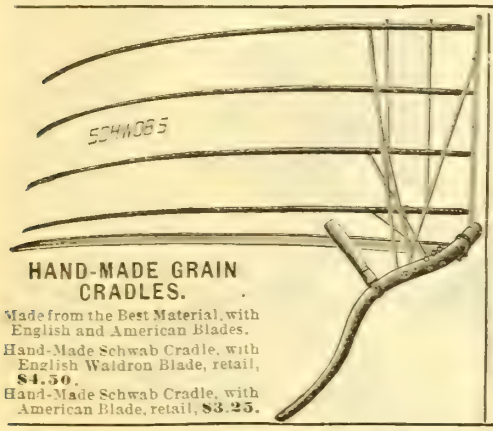
No. 1—Willoughby Creek, 10c., $1.00 doz
No. 2—White Mountain...10c., 1.00 doz

These are far superior to Darby Creek and not so easily broken.

No. 3—Green Mountain.....8c., 75c. doz
No. 4—Indian Pond No. 2 (red end) 5c. 50c. doz.
No. 5—Mowing Machine (beveled). ....10c. each
No. [illegible]—Darby Creek.....10c., $1.00 doz
No. [illegible]—Improved English Talacre.....20c. each

No. [illegible] in brass labeled Sir Tyres Mostyn Talacre Quarries.

Cigar Emery .....10c. each



HAND-MADE GRAIN CRADLES.

Made from the Best Material, with English and American Blades.

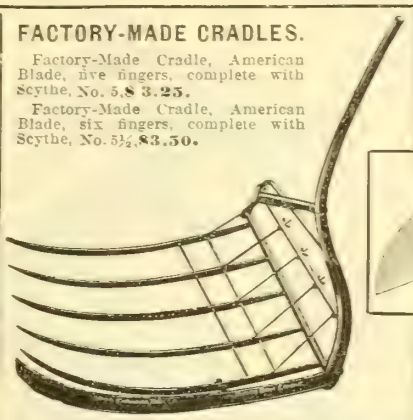
Hand-Made Schwab Cradle, with English Waldron Blade, retail, $4.50.

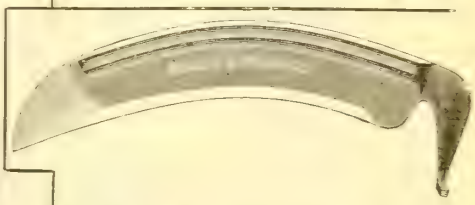
Hand-Made Schwab Cradle, with American Blade, retail, $3.25.

FACTORY-MADE CRADLES.

Factory-Made Cradle, American Blade, five fingers, complete with Scythe, No. 5, $ 3.25.

Factory-Made Cradle, American Blade, six fingers, complete with Scythe, No. 5½, $3.50.



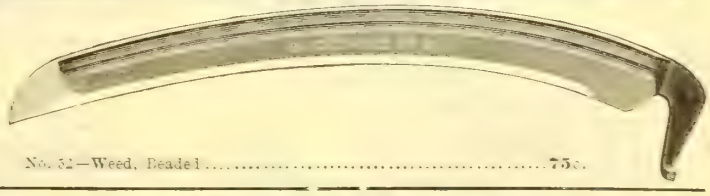


No. 50—Best Bush or Briar, Beaded, American Pointed.

Price..... 75c.

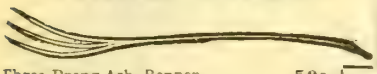
OAT AND BARLEY FORKS.

Price, each..... 65c.
Per dozen..... .....$7.20.

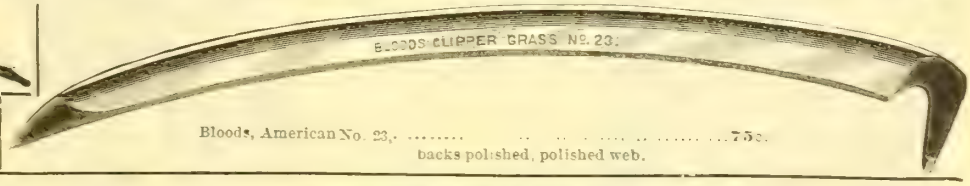


No. 52—Weed, Beaded.....75c.

STABLE FORKS.

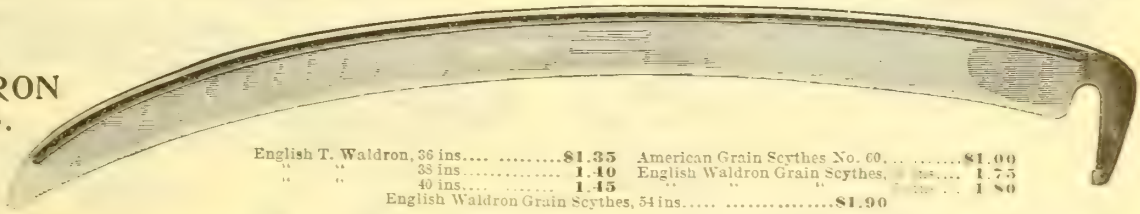


Three-Prong Ash, Bonner.....50c.
Three-Prong Oak Wood Stable Forks.
Four-Prong Oak Wood Stable Forks..75c.



Bloods, American No. 23,..... .....75c.
backs polished, polished web.

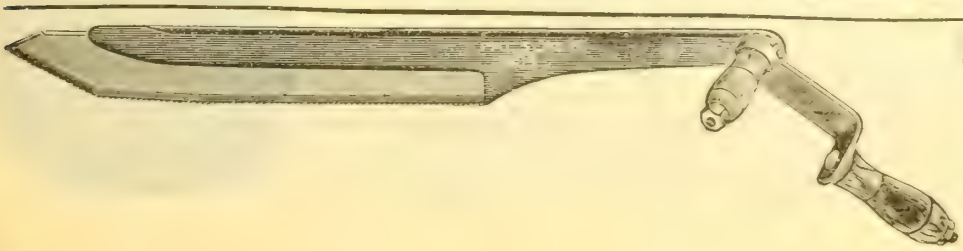
GENUINE ENGLISH T. WALDRON SCYTHES.



English T. Waldron, 36 ins.... .....$1.35 American Grain Scythes No. 60,.. .....$1.00
" " 38 ins..... 1.40 English Waldron Grain Scythes, [illegible] ins.... 1.75
" " 40 ins.... ..... 1.45 " " " [illegible] ins.. 1.80
English Waldron Grain Scythes, 54 ins..... .....$1.90

LIGHTNING PATTERN HAY KNIFE.

Price..... 75c.



THE AMERICAN SICKLE EDGE HAY KNIFE.

The best cutting knife made. Right or left hand. Sections can be easily replaced.

Price..... $1.25

WALTER A. WOOD NEW CENTURY GRAIN BINDER.

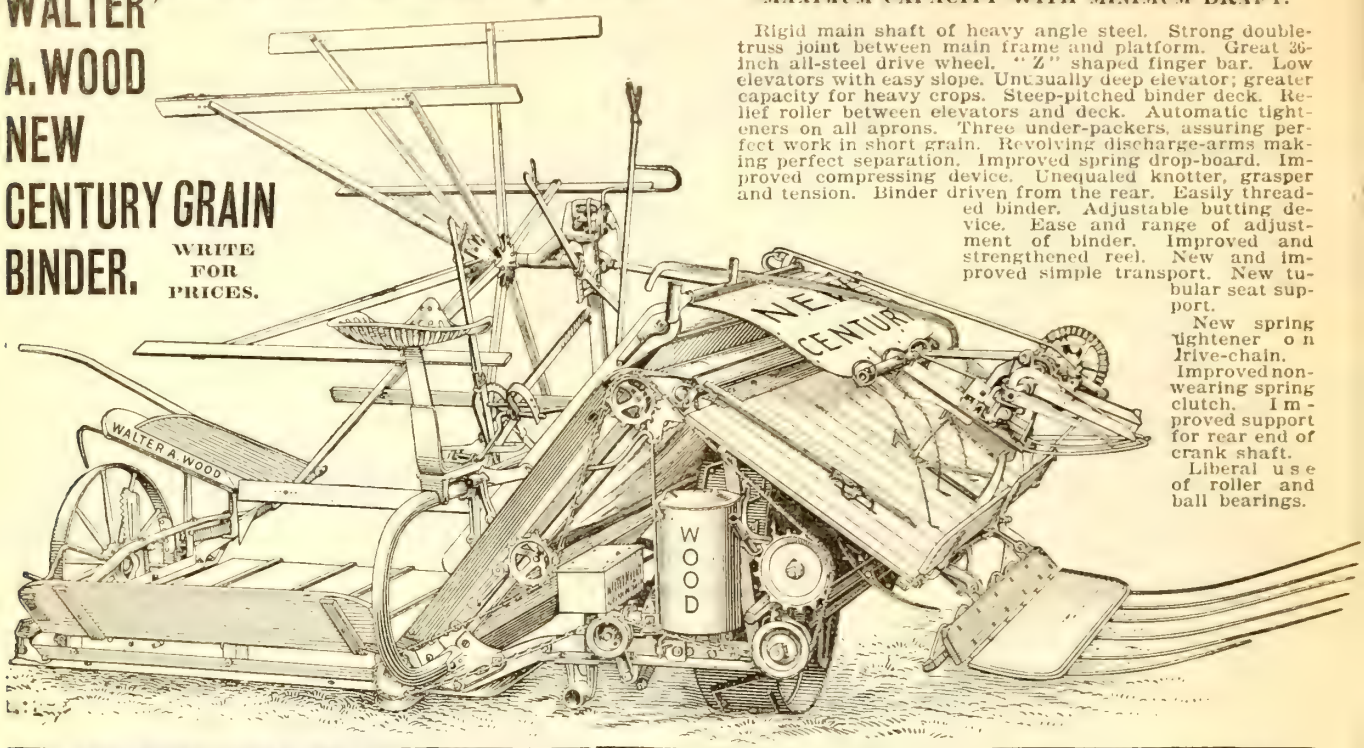
WRITE FOR PRICES.

A GENUINE TWO-HORSE MACHINE.

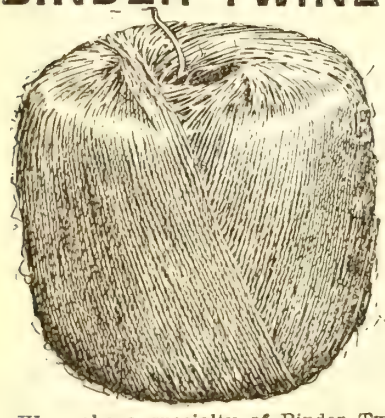
MAXIMUM CAPACITY WITH MINIMUM DRAFT.

Rigid main shaft of heavy angle steel. Strong double-truss joint between main frame and platform. Great 36-inch all-steel drive wheel. "Z" shaped finger bar. Low elevators with easy slope. Unusually deep elevator; greater capacity for heavy crops. Steep-pitched binder deck. Relief roller between elevators and deck. Automatic tighteners on all aprons. Three under-packers, assuring perfect work in short grain. Revolving discharge-arms making perfect separation. Improved spring drop-board. Improved compressing device. Unequaled knotter, grasper and tension. Binder driven from the rear. Easily threaded binder. Adjustable butting device. Ease and range of adjustment of binder. Improved and strengthened reel. New and improved simple transport. New tubular seat support.

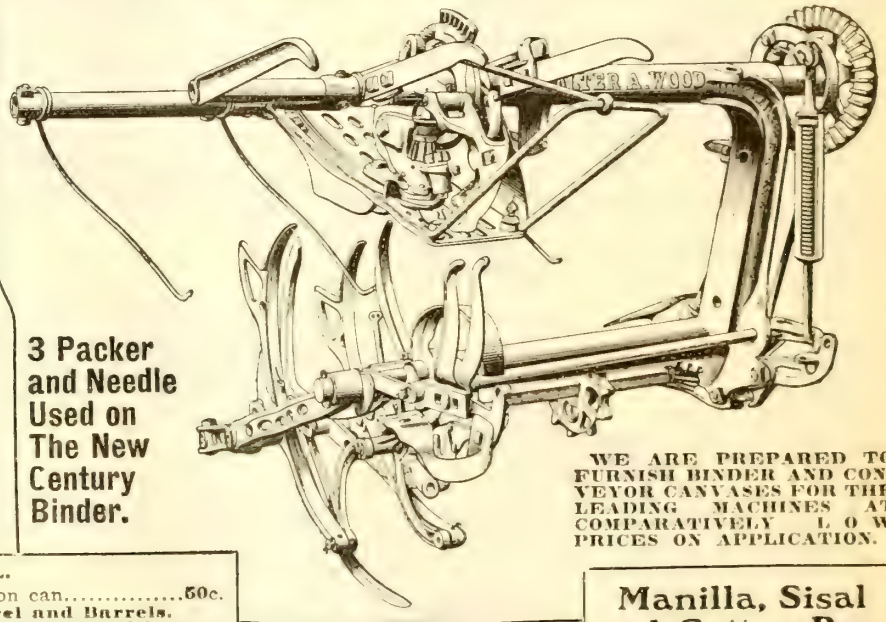
New spring tightener on drive-chain. Improved non-wearing spring clutch. Improved support for rear end of crank shaft. Liberal use of roller and ball bearings.



BINDER TWINE.



We make a specialty of Binder Twine and carry a large stock at lowest prices, and can supply in any quantity desired, such as Sisal, Standard, Standard Manila, Manila and Pure Manila. Will be pleased to open correspondence as to kinds and prices. **Write for Prices.**



3 Packer and Needle Used on The New Century Binder.

WE ARE PREPARED TO FURNISH BINDER AND CONVEYOR CANVASES FOR THE LEADING MACHINES AT COMPARATIVELY LOW PRICES ON APPLICATION.

HARVESTER OIL.

Five-gallon can.....$2.00 One-gallon can.....50c.

Special Prices for One-half Barrel and Barrels.

SEPARATOR OIL, FOR CREAM SEPARATOR.

Gallon can.....75c. Five-gallon can.....$2.50

AXLE GREASE AND OILS.

Per box—Atlas	$0.05
10-pound buckets—Atlas	.55
15 pounds, in pails—Atlas	.65
25 pounds, in pails—Atlas	.80
Mica and Shining Light, 10-pound pails	.75
Mica and Shining Light, 15-pound pails	1.00
Mica and Shining Light, 25-pound pails	1.25

Mica and Shining Light in tin boxes, per box, 8c.; 3 for 20c.

We are headquarters for a full line of lubricating oils.

Special Prices in Barrel and Half-Barrel Lots.

Imperial or Boston Coach Oil	$1.00	Neatsfoot Oil	$1.00
Imitation Castor Oil	1.00	Royal Harness Oil	.75
Mineral Castor Oil	.60	Gasoline Machine Oil	.50
		" 10-gal. can	.40

Special Prices by Larger Quantities or Barrels.

ROPE.

Always on hand the best Manila, Sisal and Cotton Rope, in coils or by the piece, at prices consistent with quality.

Prices on Application.

Approximate length of Manila and Sisal Rope, per pound: ¼ diameter, 6 ft. to pound; 13-16 diameter, 5 ft. to pound; ⅞ diameter, 4 ft. 3 in. to pound.

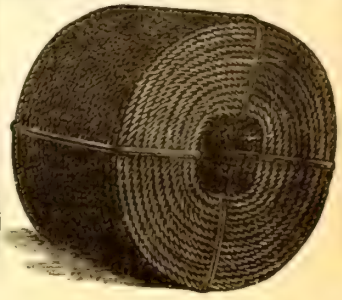
We recommend 13-16 in. Rope for hay forks.

FODDER YARN.

Have always on hand large quantities of the above.

Prices on Application.

Manilla, Sisal and Cotton Rope

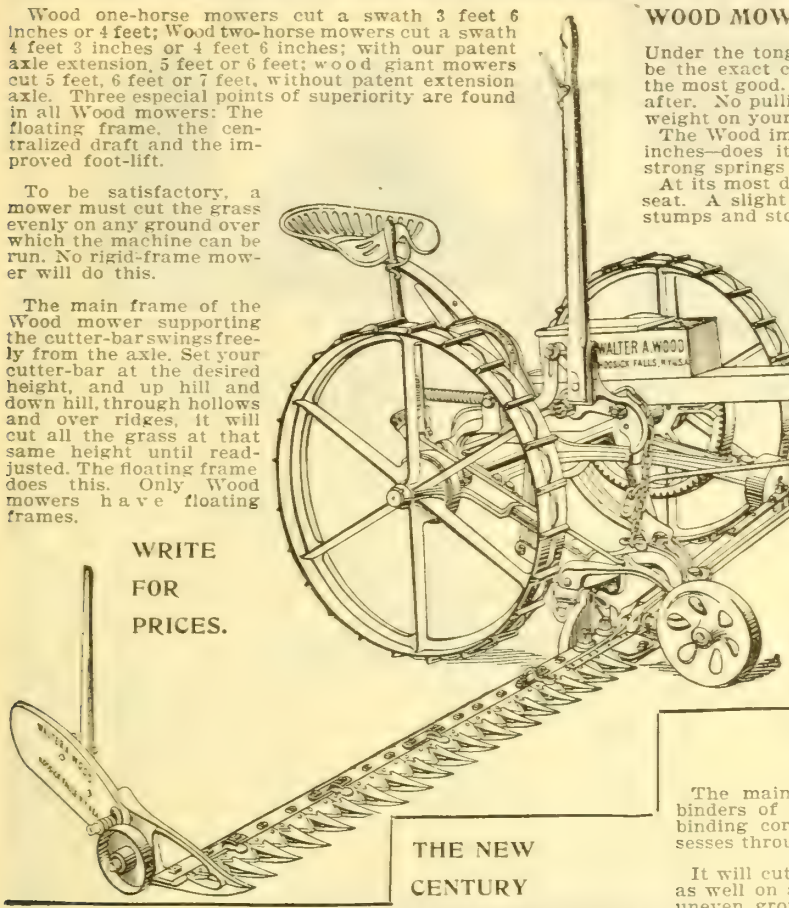


The Walter A. Wood Tubular Steel Mowers

Wood one-horse mowers cut a swath 3 feet 6 inches or 4 feet; Wood two-horse mowers cut a swath 4 feet 3 inches or 4 feet 6 inches; with our patent axle extension, 5 feet or 6 feet; wood giant mowers cut 5 feet, 6 feet or 7 feet, without patent extension axle. Three especial points of superiority are found in all Wood mowers: The floating frame, the centralized draft and the improved foot-lift.

To be satisfactory, a mower must cut the grass evenly on any ground over which the machine can be run. No rigid-frame mower will do this.

The main frame of the Wood mower supporting the cutter-bar swings freely from the axle. Set your cutter-bar at the desired height, and up hill and down hill, through hollows and over ridges, it will cut all the grass at that same height until readjusted. The floating frame does this. Only Wood mowers have floating frames.



WRITE FOR PRICES.

WOOD MOWERS PULL DIRECT FROM THE DRAFT ROD

Under the tongue attached to a point in the main frame proved to be the exact centre of draft. The power is applied where it does the most good. The horses pull the cutter-bar and the truck follows after. No pulling whatever is done by the tongue; consequently, no weight on your horses' necks.

The Wood improved foot-lift raises the cutter-bar in a line full 20 inches—does it instantly and easily. You do little of the work—strong springs do the rest.

At its most distant point the foot-lever is easily reached from the seat. A slight pressure raises the bar above all ordinary obstacles—stumps and stones. The machine stays in gear. Release the pressure on foot-lift and the bar drops immediately. No need of watching the track board. The spring adjustment takes care of it. You lose no time or hay with Wood Mower.

A range of 5½ inches in the tilt of the cutter-bar makes cutting close to the ground easy with the Wood.

The tilt-lever is right at the hand of the operator, and, like all Wood levers, operates easily and instantly.

WE FURNISH EITHER CAST OR STEEL WHEELS.

THE NEW CENTURY

Has a wide-faced, all-steel, 40-inch drive wheel, of enormous strength, that turns on roller bearings. (Compare the height of this wheel with that of other corn binder wheels.)

It has a one-piece main frame of heavy steel surrounding this wheel and making a substantial foundation for the machine.

It has an extra large balance wheel, with a six-inch throw, driving a knife with two large sections; but most of the cutting is done by two sharp blades attached to the sides of the stalk-passage, against which blades the stalks are drawn before they reach the knife proper.

These are easily removed for sharpening.

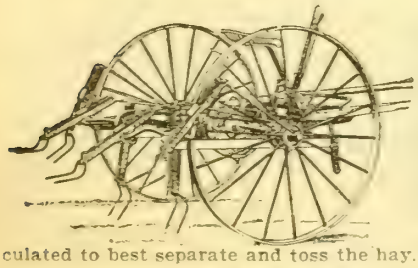
Write for Prices.

Walter A. Wood New Century Corn Binder.

The main difference between the "New Century" and corn binders of other types lies in the extra capacity for properly binding corn of varying height that the "New Century" possesses through its extension binder.

It will cut on any ground that a team can travel and operates as well on a side hill as on the level. It is tilted to conform to uneven ground by a lever placed close to the seat; and has a raising and lowering device with a range of 15 inches. One pair of ordinary horses can work it all day—and it is an easy machine on both driver and team.

The Walter A. Wood Steel Hay Tedder.



The Wood tedder is built of steel throughout, is perfectly balanced and very light in draft. It is exceptionally strong.

The strong forks are readily adjusted at different heights from the ground by the use of one lever, with a unique device for passing obstructions.

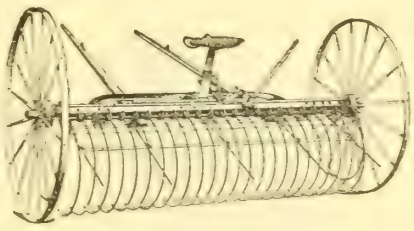
Each fork has four distinct motions calculated to best separate and toss the hay.

PRICES OF HAY TEDDERS.

Six-fork	$32.00
Eight-fork	35.00

Special Prices for Cash.

The Walter A. Wood Steel Self-Dump Hay Rakes.



It is in every sense of the word a self-dump rake. You merely touch the trip with your foot. The dumping is automatic.

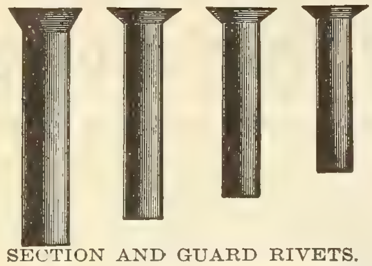
The self-dump rake also has a hand-dump attachment.

Naturally, in a rake the important parts are the rakers—the teeth. The Wood teeth are made on a special pattern designed to produce best results. They do not harrow the ground, but they rake all the hay. They do not allow it to roll over and over and finally tangle in the wheels, but they rake it and carry it until you touch the trip. All Walter A. Wood rakes can be used for one or two horses, the shafts sliding together and forming a pole.

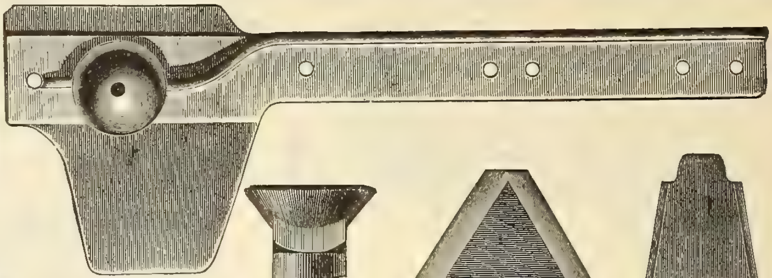
PRICE OF SELF-DUMP RAKES, ALL STEEL.

8 ft., with 20 teeth	$21.00
8 ft., with 24 teeth	22.00
9 ft., with 27 teeth	23.00

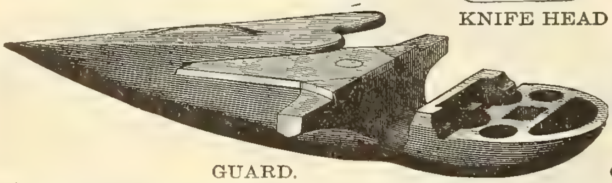
Special Prices for Cash.



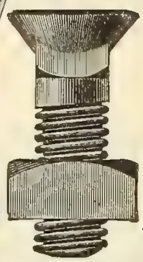
SECTION AND GUARD RIVETS.



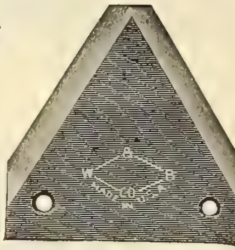
KNIFE HEAD



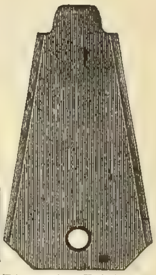
GUARD.



GUARD BOLT.



SMOOTH SECTION.



LEGER PLATE.

REAPER SICKLE.

MOWER KNIFE.

MOWER SMOOTH SECTIONS, KNIVES AND GUARDS.

Machine.	Size of Section.	Retail Price of Section.	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head.	List Price of Knife Head.	Knives complete.	
								4½ ft.	5 ft.
Wood	3 x 3⅛	$ .05	A	$ .25	1680	$ .35	$ .60	$2.40	$2.50
Wood	3 x 2⅝	.05	P. P.	.25	1810	.35	.60	2.40	2.50
Deering	3 x 3¼	.05	D 442	.25	F 123	.35	1.20	2.40	2.50
Deering	3 x 3⅛	.05	F ½	.25	F 174	1.00	1.40	2.40	2.50
Deering	2¼ x 3⅛	.05	F 99½	.25	F 74	1.00	1.20	2.40	2.50
McCormick	3 x 3 3/16	.05	M 462	.25	M 139	.25	.80	2.40	2.50
McCormick	3 x 3 1/16	.05	M 253	.25	M 139	.25	.80	2.40	2.50
Champion	3 x 3 5/16	.05	A 41	.25	A 415	.50	.60	2.40	2.50
Champion	3 x 3 9/16	.05	A 811	.25	A 415	.50	.60	2.40	2.50
Champion	3 x 3 3/16	.05	A 465	.25	A 415	.50	.60	2.40	2.50
Champion	3 x 3¼	.05	A 41	.25	B 37	.50	1.00	2.40	2.50
Champion	3½ x 3¼	.05	4	.25	B 37	.50	1.00	2.40	2.50
Osborne	3 x 3 High Punch	.05	K 280	.25	K 284	.25	.60	2.40	2.50
Osborne	3 x 3 Low Punch	.05	K 72	.25	K 212	.25	.60	2.40	2.50
Johnston	3 x 3⅜	.05	897	.25	919	.25	.80	2.40	2.50
Johnston	3 x 3⅛	.05	77	.25	124	.25	.80	2.40	2.50
Plano	3 x 3⅛	.05	H 46	.25	J 94	.25	.80	2.40	2.50
Milwaukee	3 x 3⅛	.05	P K 5	.25	P. G. 6	.25	.80	2.40	2.50
Adriance Buckeye	3 x 3⅛	.05	564	.25	557 F	.40	.80	2.40	2.50
Akron Buckeye	3 x 3⅜ Low Punch	.05	775	.25	301	1.00	1.20	2.40	2.50
Akron Buckeye	3 x 3⅜ High Punch	.05	775	.25	301	1.00	1.20	2.40	2.50
Whiteley	3 x 3 11/32 Low Punch	.05	A 16	.25	A 57	1.00	1.00	2.40	2.50
Whiteley	3 x 3 11/32 High Punch	.05	A 185	.25	15	1.00	1.00	2.40	2.50
Eureka	3 x 2⅞	.05	40	.25	66 B	.50	.80	2.40	2.50
Eureka	3 x 3⅛	.05	40 D	.25	66 B	.50	.80	2.40	2.50
Manny	3 x 3⅜	.05	A	.25	Mal. Lock Nut	1.00	1.20	2.40	2.50
Warrior	2¼ x 3	.05	W	.25	1470	1.00	1.40	2.40	2.50
Warrior	2½ x 2⅞	.05	V	.25	1699	.50	.80	2.40	2.50
Triumph	3 x 3⅛	.05	635	.25	6139	.50	.80	2.40	2.50
Empire	3 x 3⅜	.05	55	.25	Forged	1.00	1.20	2.40	2.50
Bradley	3 x 3⅛	.05	400	.25	736	.50	.80	2.40	2.50

BINDER SICKLE SECTIONS, GUARDS AND KNIVES.

Machine.	Size of Section.	Retail Price of Section.	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head.	List Price of Knife Head.	Knives complete.		
								6 ft.	6½ ft.	7 ft.
Wood	3 x 2⅝	$ .05	W	$ .25	H 2139	$ .40	$ .60	$2.75	....	$3.00
Wood	3 x 2 3/16	.05	H 171	.25	H 1150	.35	.50	....	$3.00	......
Deering	3⅛ x 2⅛	.05	286	.25	H 260	.25	.80	2.75	....	3.00
Deering	3⅛ x 2 5/16	.05	286	.25	A 46	.50	.80	2.75	....	3.00
McCormick	3 x 2⅛	.05	H 495	.25	B 23	.25	.70	2.75	....	3.00
Champion	3 x 2⅝	.05	U 53	.25	1852	.50	1.00	2.75	....	3.00
Osborne	3 x 2¼	.05	D 300	.25	B 587	.25	1.00	2.75	....	3.00
Johnston	3 x 2⅜	.05	50 A	.25	L 296	.25	1.00	....	3.00	3.00
Plano	3 x 2 3/16	.05	L 300	.25	L 395	.25	.80	2.75	....	3.00
Plano	3 x 2½	.05	L 67	.25	L 66	.25	.80	2.75	....	3.00
Milwaukee	3⅛ x 2¼	.05	J 76	.25	H 41⅞	.25	.50	2.75	....	3.00
Adriance	3 x 2½	.05	1265	.25	1245 A	.40	1.20	2.75	....	3.00
Akron Buckeye	3 x 2½	.05	T 35	.25	H 700	1.00	1.00	2.75	....	3.00
Triumph	3 x 2½	.05	2	.25	615	.70	.70	2.75	....	3.00

Leger Plates for all machines, 5c. each. Section and Guard Rivets, 20c. lb. Guard Bolts for all machines, 4c. each.

Above we give a table of sizes, numbers and prices of Sections, Guards, Knife Heads and Knives complete, and combinations generally used. In some cases more than one Knife Head and Guard have been used with the same Section. In ordering, always give number of Guard and Knife Head, also drawing of Section, if wanted, showing holes punched in Section. In ordering Knives complete, always give number of old Knife Head.

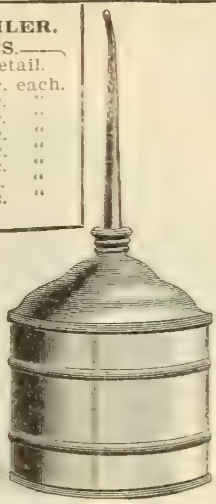
OILERS.

WE CARRY IN STOCK A FULL LINE OF OIL CANS FOR ALL KINDS OF FARM MACHINERY.

CHACE ZINC OILER.

No.	PRICES. List—doz.	Retail.
00	$1.00	10c. each.
0	1.25	10c. "
1	1.50	10c. "
2	2.00	15c. "
3	2.25	15c. "
4	2.75	20c. "
5	3.50	25c. "
6	4.50	30c. "

No. 3 CHACE.



OVAL—No. 699.
No. 699—Bent or Straight Stem. Oval..........10c.

ROUND.
No. 698-Bent or Straight Stem. Round....10c.

DOME—No. 700.
No. 700—Dome.... ....10c.

No. 601.
Copperized Steel Mowing Machine. Bent or Straight Stem..........20c.

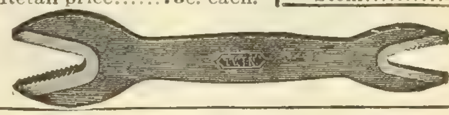
Engineer's Oilers
1 pint.......30c.
1 quart.....40c.

"BULL-DOG" WRENCHES.

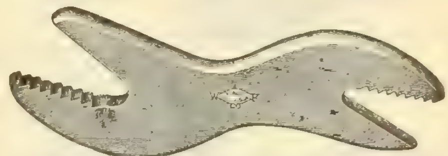
No. 0.—Pocket size, 4 inches long.
List price, per doz..**$3.00** Retail price....**15**c. each
No. 1.—5¾ inches long.
List price, per doz..**$4.00** Retail price....**20**c. each
No. 1½.—5¾ inches long.
List price, per doz..**$5.00** Retail price....**25**c. each
No. 2.—9 inches long.
List price, per doz.**$12.00** Retail price....**60**c. each

TWIN WRENCHES.

Twin, 10 inches long.
List price, per doz..**$18.00**
Retail price......**75**c. each.

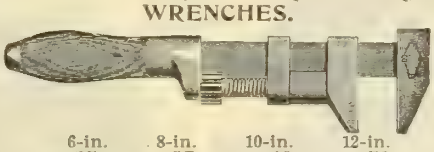


"ALWAYS READY" WRENCH.



Manufactured from Special Steel, Forged and Tempered in Oil, Polished and Nickel-plated
No. 1.—5 inches long.
List price, per doz..**$5.00** Retail price....**30**c. each
No. 2.—7 inches long.
List price, per doz..**$6.75** Retail price....**40**c. each

WROUGHT SCREW AGRICULTURAL WRENCHES.



	6-in.	8-in.	10-in.	12-in.	15-in.
Retail price, each	.25	.35	.40	.50	.75
List price, per dozen	$9.00	$10.00	$12.00	$14.00	$24.00

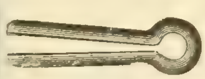
PUNCH.

	½-in.	⅝-in.
Retail price, each	.15	.15
List price, per dozen	$3.00	$4.50

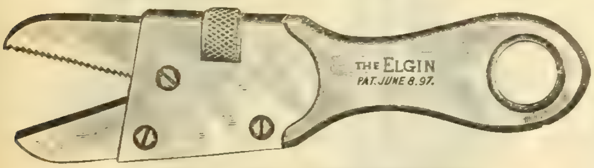
COLD CHISEL.

	½-in.	⅝-in.
List price, per dozen	$4.00	$5.50
Retal price, each	.15	.20

COTTER.



"THE ELGIN" ADJUSTABLE WRENCH.



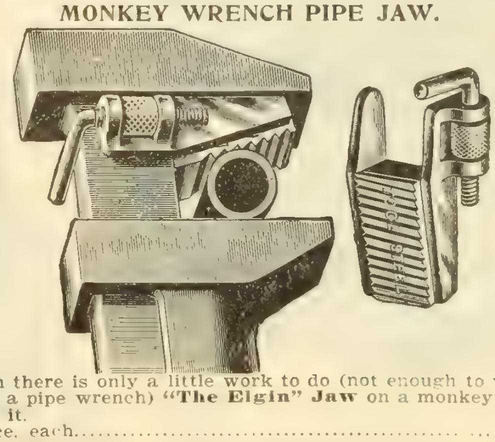
WILL HOLD PIPE OR NUTS.

Both Jaws Hardened.—Length, 7 Inches.
Wrench Is All Steel.—Weight, 10 Ounces.

It will fit a pipe up to ¾-inch, or a nut that is 1⅛ inch across. Adjusting to fit the articles you get all the leverage and no ends to interfere. When the toothed jaw is worn out, get a new one for 25 cents; it makes the wrench as good as when you bought it.

Price..............**75**c. each. For extra jaws........**25**c. each.

MONKEY WRENCH PIPE JAW.

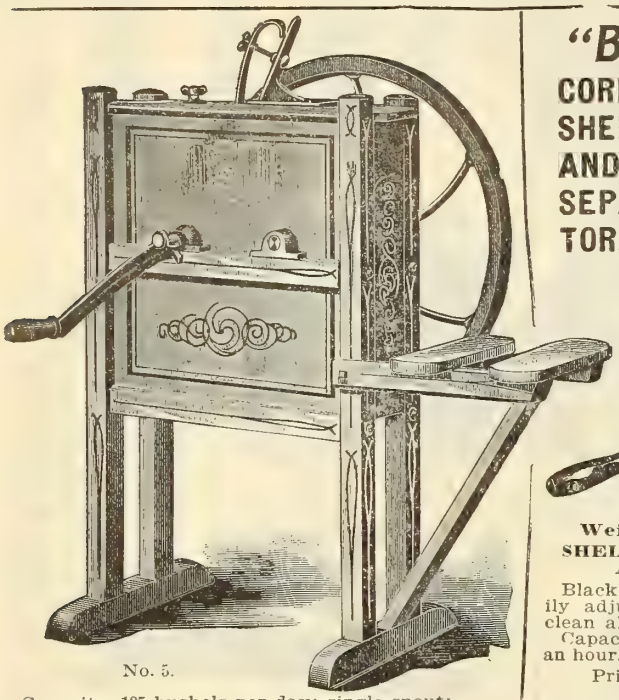


When there is only a little work to do (not enough to warrant buying a pipe wrench) **"The Elgin" Jaw** on a monkey wrench will do it.

Price, each.................**30**c.

Any Ordinary 10 or 12-Inch Monkey Wrench.

BALTIMORE SHELLERS



No. 5.

Capacity, 125 bushels per day; single spout; left hand. Corn and cobs separated.

Without basket holder.....$6.00
Basket holder extra..... .60

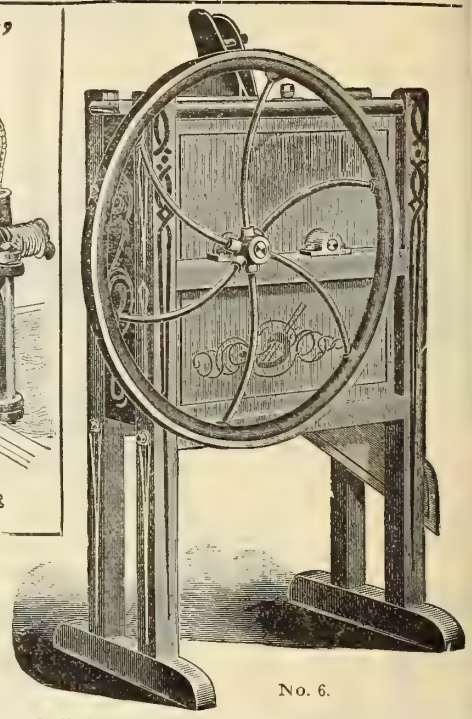
Special Discount for Cash.

"Black Hawk" CORN SHELLER AND SEPARATOR.

Weight, 14 Pounds.
SHELLS FAST, CLEAN, AND EASILY.

Black Hawk is simple, easily adjusted, and will shell clean all kinds of field corn. Capacity, 12 to 15 bushels an hour.

Price.....$2.00



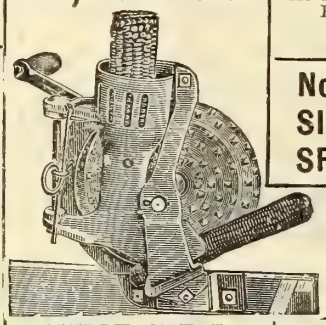
No. 6.

Runs shelled corn and cobs together. Capacity, 125 bushels per day.

Price, Plain Sheller.....$5.50

Special Discount for Cash.

"Easy" Corn Shellers

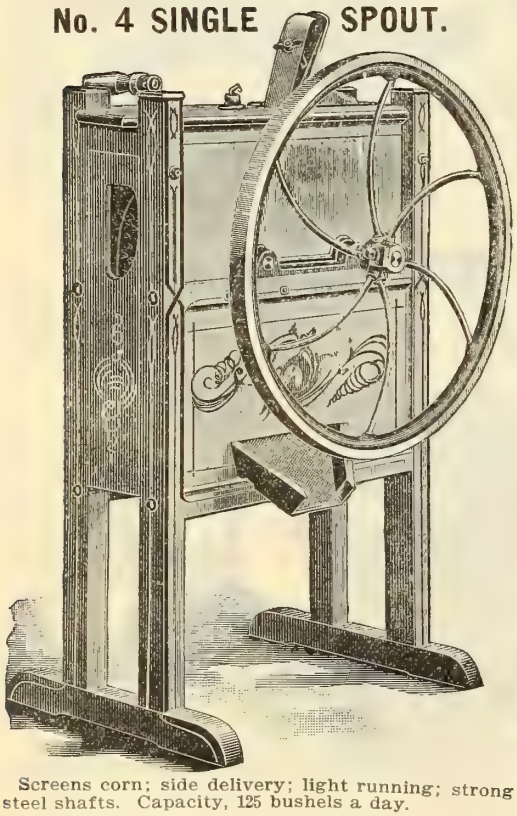


SIMPLE, CHEAP, STRONG, CONVENIENT
Weight, 15 Pounds.

Capacity, 8 to 10 bushels per hour.

Price.....$1.25

No. 4 SINGLE SPOUT.

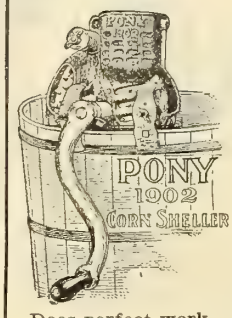


Screens corn; side delivery; light running; strong steel shafts. Capacity, 125 bushels a day.

Plain.....$6.50

Special Discount for Cash.

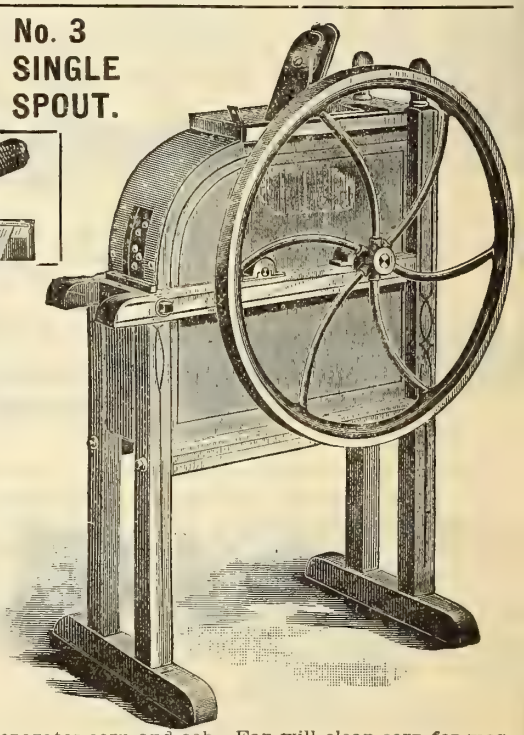
PONY CORN SHELLER.



Does perfect work.

Price.....$1.50.

No. 3 SINGLE SPOUT.



Separates corn and cob. Fan will clean corn for market. Corn discharged beneath Sheller, cobs at end. Easily adjusted for large or small ears. Capacity, 125 bushels a day.

Plain.....$6.50
With fan..... 7.00

Special Discount for Cash.

CORN SHELLERS AND FANNING MILLS

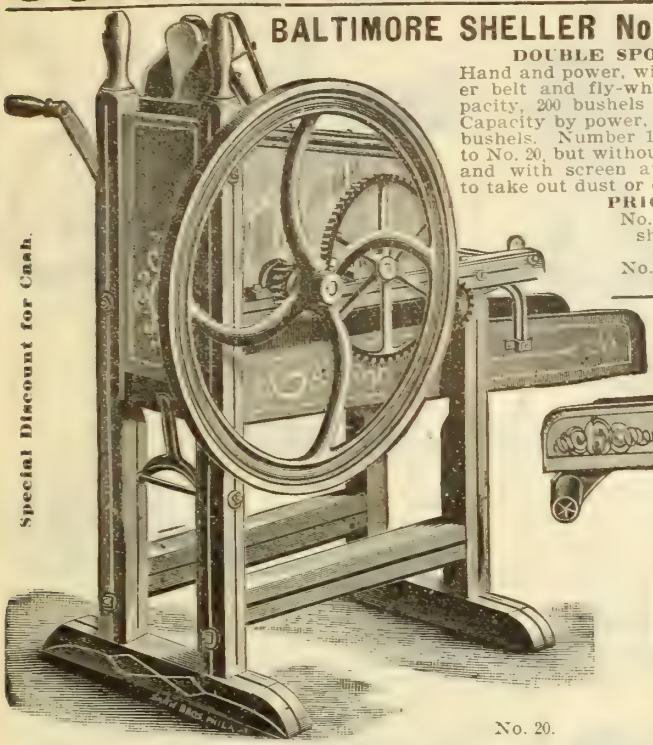
BALTIMORE SHELLER No. 20.

DOUBLE SPOUT.

Hand and power, with shaker belt and fly-wheel. Capacity, 200 bushels per day. Capacity by power, 500 to 600 bushels. Number 18 similar to No. 20, but without shaker and with screen at bottom to take out dust or dirt.

PRICE—
No. 20, with shaker, **$14.00.**
No. 18, **$12.50.**

Special Discount for Cash.



No. 20.

BALTIMORE SHELLER No. 2.

SINGLE HOLE.

Cleans the corn thoroughly.

Heavy fly-wheel wrought spokes

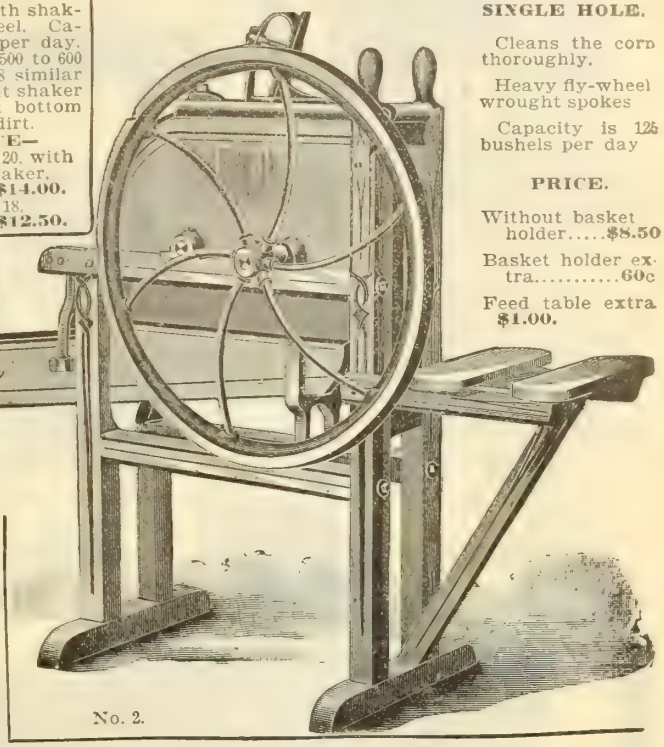
Capacity is 12½ bushels per day

PRICE.

Without basket holder.....**$8.50**

Basket holder extra.....60c

Feed table extra **$1.00.**

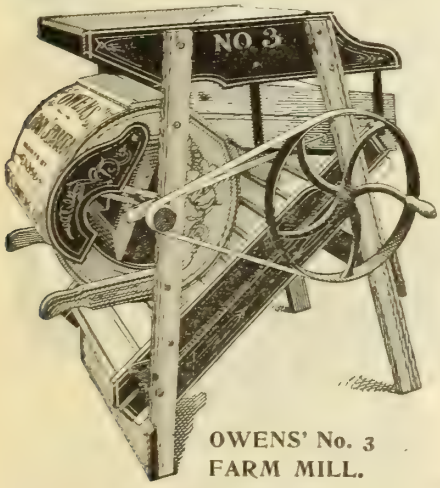


No. 2.

OWENS' WHEAT CLEANER AND COCKLE SEPARATOR.

NO MORE COCKLE.

The Owens Takes Out More Cockle and Foul Seeds Than Any Other Fan Made. Increases Price of Grain 10 to 20%.



OWENS' No. 3 FARM MILL.

It has given perfect satisfaction wherever tried. It is a perfect cleaner of oats, barley, peas, beans, clover, timothy, millet, alfalfa, and for removing cheat and cockle out of the wheat.

It will separate mustard and all foul seeds from flax, etc.

We furnish the Owens Automatic Force Feeder with all mills.

All of these mills are end shake, with the exception of No. 20, which is side shake.

Capacity, 30 to 40 bushels per hour. This mill separates all foul seeds from wheat, oats and barley, especially mustard. Will also clean flax from all foul seeds, as well as clean all kinds of grass seed. Has end shake. Price.....**$18.50**

Special Price for Cash.

OWENS' No. 3½ FARM MILL.

Capacity 40 to 60 bushels per hour. Has all the merits of the No. 3, but has greater capacity and easier to operate, owing to its being made lower. It will also separate oats from wheat better than any other make of mills. Has end shake. Price.....**$21.50**

Special Price for Cash.

OWENS' No. 1 FARM MILL.

Seed, grain and bean cleaner, separator of cockle, buckwheat and mustard. Capacity, 40 to 50 bushels per hour. Price...**$28.50**

Special Price for Cash.

OWENS' No. 5 FARM MILL.

Capacity, 60 to 80 bushels per hour. This mill is larger than No 3 and requires more power, but will do same class of work. Especially recommended for cleaning large crops of wheat or other grain. Price.....**$24.50**

Special Price for Cash.

OWENS' No. 20 SIDE SHAKE FARM MILL.

This mill has all the good points of No. 3, but is much wider, and consequently has greater capacity. Has side shake. It cannot be excelled for cleaning seed wheat, and is used more especially for warehouse purposes. It has the slatted canvas principle of the other styles. Capacity, 80 to 100 bushels per hour.

Price.....**$27.50**

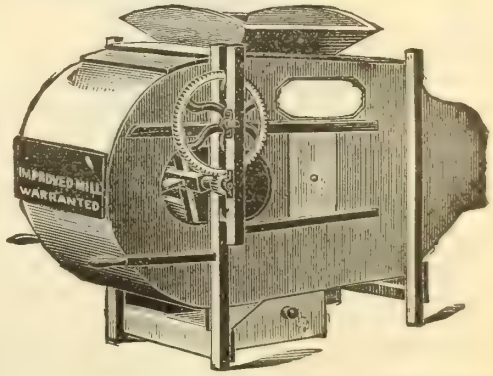
Special Price for Cash.

The Baltimore Improved Grain Fan.

GOOD GENERAL PURPOSE MILL.

—

Side Shake



Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner.

Price.....**$18.00**

Special Price for Cash.

Our Balto. Pony Cutter.

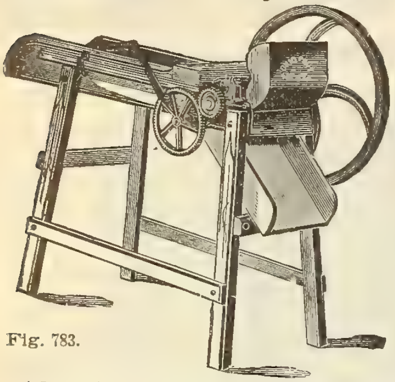


Fig. 783.

Adapted to cutting hay, straw and corn fodder, and is suitable for persons keeping from one to four or five animals.

Weight, K. D., packed for shipment, 160 pounds.

One knife, 11¼ inches long.

Retail price....................... **$10.00**

Special Discount for Cash.

Maryland Lever Cutter.

STRONG, CHEAP AND DURABLE.

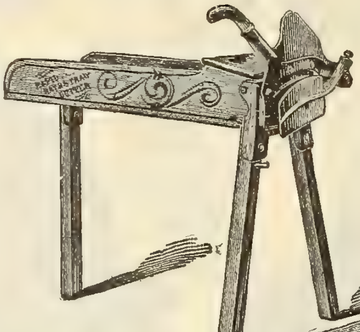
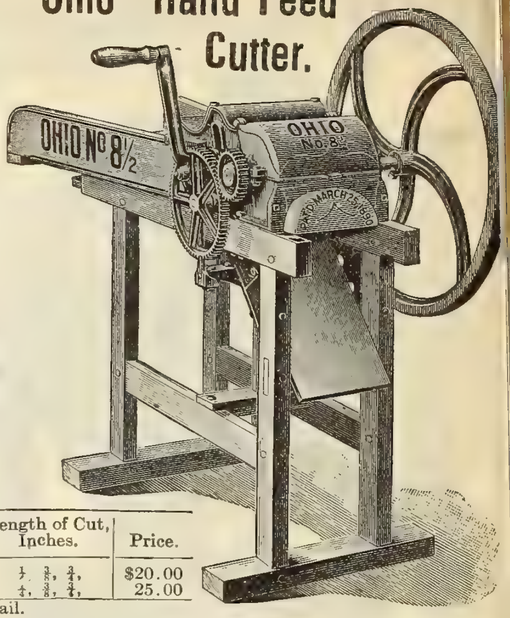


Fig. 778.

Knife..............................11 inch.
Weight, K. D..................55 pounds.
Price.................................**$3.50**

"Ohio" Hand Feed Cutter.

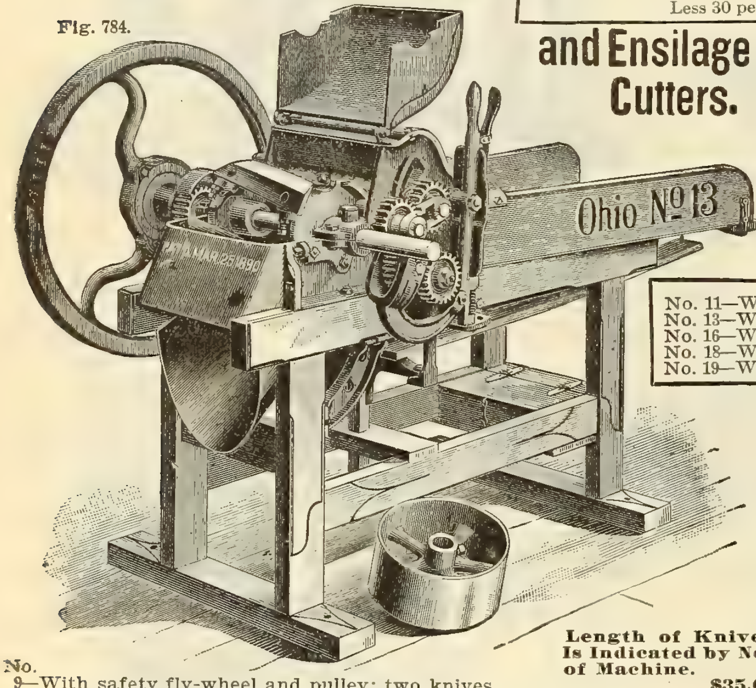


No.	Length of Knives, Inches.	Number of Knives.	Length of Cut, Inches.	Price.
8½	8½	2	½, ⅜, ¾,	$20.00
10½	10½	2	¼, ⅜, ¾,	25.00

Less 30 per cent. retail.

"Ohio" Standard Feed and Ensilage Cutters.

Fig. 784.



Length of Knives Is Indicated by No. of Machine.

No.
9—With safety fly-wheel and pulley; two knives......................... **$35.00**
9—With safety fly-wheel and pulley; four knives......................... **40.00**
When furnished with extended knife shaft to place fly-wheel or pulley on either side, extra......................... **2.00**
11—With two knives, 11 inches long, four lengths cut......................... **40.00**
11—With four knives, 11 inches long, four lengths cut......................... **45.00**
Extra gears to cut four inches long......................... **3.00**
Shredder blades, interchangeable, with knives, each......................... **2.65**
13—With two knives, 13 inches long, four lengths cut......................... **60.00**
13—With four knives, 13 inches long, four lengths cut, weight 560 lbs.. **65.00**
Extra gears to cut four inches long, with two knives......................... **4.00**
Shredder blades, each......................... **3.00**
16—With four knives, 16 inches long, four lengths cut; weight, 620 lbs.. **90.00**
Extra gears to cut four inches long, with two knives......................... **4.00**
Spreader blades, each......................... **3.75**
18—With four knives, 18 inches long, four lengths cut; weight, 700 lbs.. **120.00**
Extra gears to cut four inches long, with two knives......................... **4.00**
Spreader blades, each......................... **4.50**

Less 30 Per Cent. Retail.

NEW "OHIO" SHREDDER.

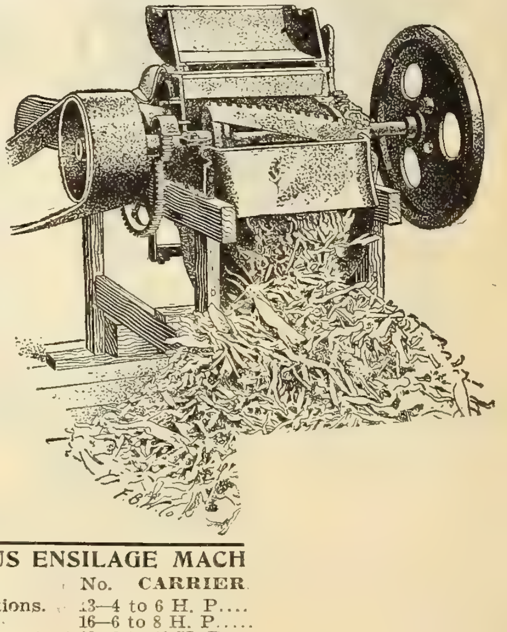
Our new shredder blade successfully reduces the fodder to the proper condition with the same power, speed and capacity as the regular Ohio Cutter. Interchangeable on all sizes with the knives. Nothing extra but the shredder blades. Least cost, best results. Does not pulverize the leaves like saw-blade or tooth-shredders, but splits and tears the stalks perfectly. The greatest saving in this new shredder is that perfect work can be done running at normal speed (600 to 700 revolutions), which means that the same power that runs the cutter will run the shredder.

	Two Blades.	Four Blades.
No. 11—With shredder blades only..........	**$41.75**	**$48.50**
No. 13—With shredder blades only..........	**62.00**	**69.00**
No. 16—With shredder blades only..........	**87.50**	**95.00**
No. 18—With shredder blades only..........	**117.00**	**126.00**
No. 19—With shredder blades only..........	**196.75**	**206.50**

Shredder blades, for No. 11, which interchange with knives, each......................... **$2.65**

Shredder blades—For No. 13, **$3.00.** No. 16, **$3.75.** No. 18, **$4.50.** No. 19, **$4.85** each.

Less 30 Per Cent. Retail.



POWER AND SPEED REQUIRED TO RUN THE VARIOUS ENSILAGE MACH

SPEED CUTTERS ALONE.

No.		Revolutions.
9—1 H. P..................	Speed,	300 to 600
11—1 to 2 H. P...........	"	300 to 600
13—2 to 4 H. P...........	"	450 to 600
16—2 to 4 H. P...........	"	450 to 600
18—4 to 6 H. P...........	"	450 to 600

BLOWERS AND CUTTERS.

No.		Revolutions.
13—6 to 8 H. P..........	Speed,	600
16 or 18—10 H. P........	"	600
19—16 to 20 H. P........	"	600

No. CARRIER

13—4 to 6 H. P....
16—6 to 8 H. P....
18—6 to 10 H. P....
19—8 to 12 H. P....

The power here given on Carriers is applicable when cutting

"Ohio" Self-feed Ensilage Cutter, with Direct Blast Blower Elevator

A SUCCESSFUL BLOWER ELEVATOR FOR THE STANDARD CUTTERS.

THE cut clearly outlines a new blower or wind elevator in connection with the "Ohio" Standard Self-Feed Ensilage Cutter, and one that is adapted for use with the three sizes, Nos. 13, 16 and 18. The blower is wide and stands 5½ feet in diameter, which gives ample capacity to carry away and elevate the cut ensilage as fast as these large capacity cutters will cut it.

CAPACITY OF ENSILAGE PER HOUR.

No. 13..... 8 to 12 tons. No. 18.....14 to 20 tons.
No. 16.....12 to 15 tons. No. 19.....17 to 25 tons.

These machines will cut all kinds of dry feed, and with blower elevator and pipe can be conveyed to any part of the barn.

SIZE OF PULLEY, POWER, SPEED AND WEIGHT.

The pulley is 14x6-inch face and is leather-covered. Power, 6 to 8-horse for No. 13 and 10-horse engine for Nos. 16 or 18. Speed, 600 revolutions per minute. Weight of No. 13, 850 pounds; No. 16, 925 pounds; No. 18, 965 pounds; No. 19, 1,145 pounds. Blower and fan wings, 450 pounds; pipe, about 4 pounds per foot.

POWER AND SPEED.—Owing to the high speed of the fan, it requires a little more power than cutter and carrier, and to be on the safe side we recommend not less than 10 H.P. engine, and to run the cutter between 800 and 900 revolutions per minute, giving the fan a speed of 2,000 to 2,500 revolutions, which will elevate all kinds of dry feed, ensilage or water a perpendicular height of 40 feet or more.

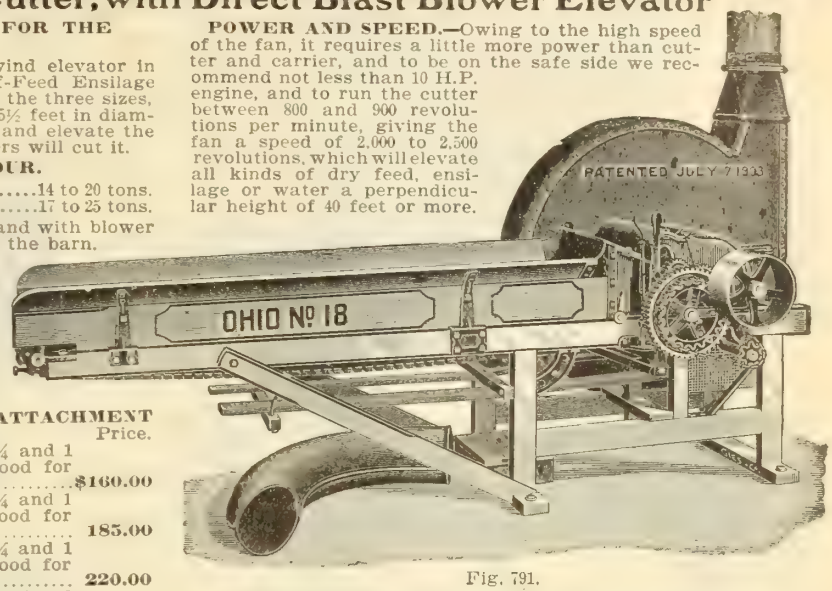


Fig. 791.

PRICE LIST OF CUTTERS WITH BLOWER ATTACHMENT

No.		Price.
13	"Ohio" Cutter, four 13-inch knives, cuts ½, ¾ and 1 inch, and Blower complete with 5-foot hood for top of pipe	$160.00
16	"Ohio" Cutter, four 16-inch knives, cuts ½, ¾ and 1 inch, and Blower complete with 5-foot hood for top of pipe	185.00
18	"Ohio" Cutter, four 18-inch knives, cuts ½, ¾ and 1 inch, and Blower complete with 5-foot hood for top of pipe	220.00
19	"Monarch" Cutter, four 19-inch knives, cuts ½, ¾ and 1 inch, and Blower complete with 5-foot hood for top of pipe	265.00
	8-inch galvanized pipe in 4, 6 and 10-foot lengths for No. 13 Cutter, per foot	.80
	10-inch galvanized pipe in 4, 6, 8 and 10-foot lengths for No. 16, No. 18 or No. 19 Cutter, per foot	1.00
	Extra gears to cut 4 inches long with two knives, Nos. 13, 16, 18	4.00
	Extra gears to cut 4 inches long with two knives, No. 19	5.50

Less 30 Per Cent Retail.

SHOWING NEW METAL BUCKET SWIVEL CARRIER.

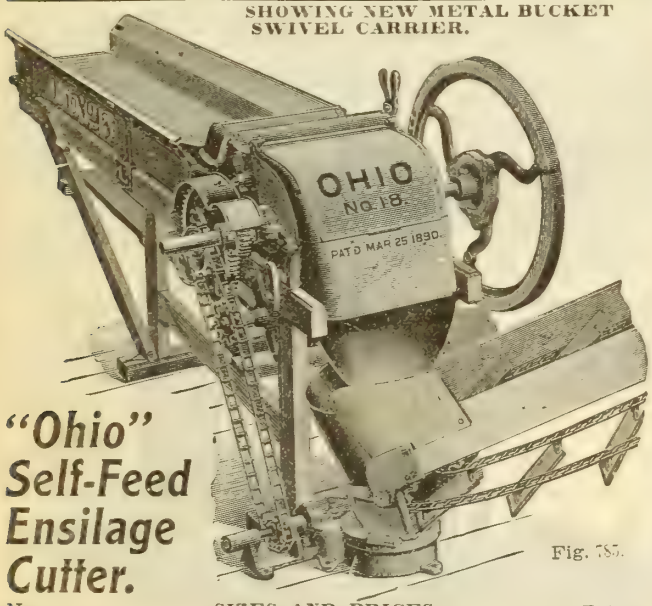


Fig. 785.

"Ohio" Self-Feed Ensilage Cutter.

No.	SIZES AND PRICES.	Price.
13	"Ohio" Self-feed Cutter	$95.00
16	"Ohio" Self-feed Cutter	120.00
18	"Ohio" Self-feed Cutter	155.00
19	"Monarch" Self-feed Cutter	200.00
20	"Ohio" Self-feed Cutter	250.00
24	"Ohio" Self-feed Cutter	300.00
	Reversible Carrier, 12 feet long, for No. 11	33.75
	Straight Carrier, 12 feet long, for No. 11	30.25
	Straight Carrier, 12 feet long, for Nos. 13, 16 or 18	33.50
	Straight Carrier, 12 feet long, for Nos. 19 or 20	40.00
	Straight Carrier, 12 feet long, for No. 24	45.00
	Swivel Carrier, 12 feet long, for Nos. 13, 16 or 18	45.00
	Swivel Carrier, 12 feet long, for Nos. 19 and 20	55.00
	Swivel Carrier, 12 feet long, for No. 24	60.00
	Extra length per foot for Nos. 11, 13, 16 and 18	1.70
	Extra length per foot for Nos. 19, 20 and 24	2.25

1903 Shredder Blades for No. 13, $3.00; 16, $3.75; 18, $4.50 each.
Wood cover, with hooks and eyes to fasten, Nos. 20-24, a foot.35c.

Less 30 Per Cent Retail.

Boiler or Steam Feed Cooker.

SIZES AND PRICES.

No. 1—19 in. shell; height over all, 54 in.; 9 flues; 325 lbs. **$40.00**
No. 2—19 in. shell; height over all, 58 in.; 13 flues; 370 lbs. **$45.00.**

Price includes two gauge cocks, blow-off cock, pump, safety valve, 2 ft. 6 in. of suction hose, 3 ft. steam pipe, with valve to convey steam to barrel or vat.

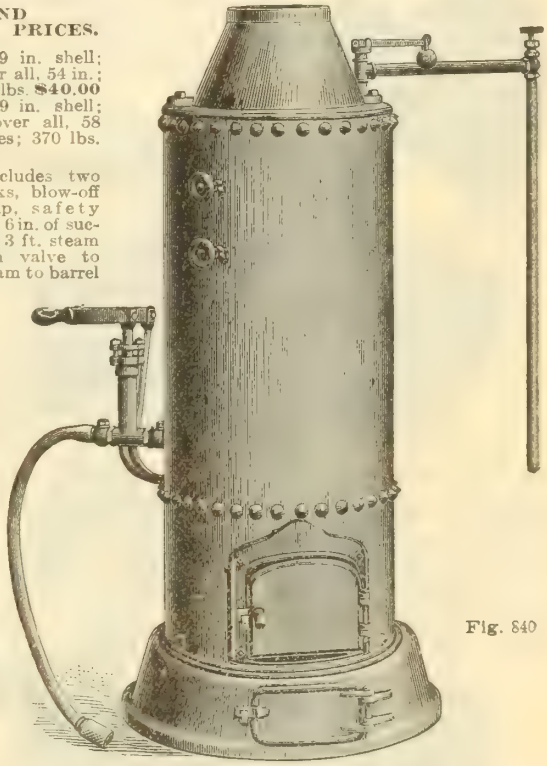


Fig. 840

Steel boiler with lap-welded flues, well riveted and calked, capable of standing 150 lbs. hydraulic pressure, and carrying steam pressure of 100 lbs. to the square inch. Fire box provided with grates adapted to burning all kinds of fuel; will cook or steam feed placed in a barrel or vat, with but little care and without danger of burning, thus overcoming objections to kettle or caldron; will steam moldy hay and corn perfectly sweet; dry corn stalks and straw so they will be soft and palatable; cook potatoes so as to render them digestible and valuable for feed; will enable a farmer to save much of his corn and other feed, and make his stock thrive better; will save labor in feeding rather than increase it. The boiler can be used for heating water, steaming casks and milk cans, steaming wood for bending, heating cheese vats, steaming wheat, ordering tobacco, etc

THE SCIENTIFIC CORN AND COB MILLS

STYLE H.—No. 1.

Has double breakers, partition hopper, pin breaker and safety bottom. It grinds ear corn without shucks, shelled corn, oats, rye, barley, cheat screenings, or any and all kinds of small grain, separately, or any two or more mixed, for feed.

DIMENSIONS AND WEIGHT.—3 feet 10 inches long, 2 feet 8 inches wide and 3 feet 7 inches high. Weighs 508 pounds. Weight of flywheel, 40 pounds. Shaft.—1¼ inches in diameter, cold rolled steel.

GRINDING PLATES.—10 inches in diameter. These plates are unlike those in the other mills, and run only in one direction—to the right. Can furnish left hand if desired. Will furnish an extra set free in this style of mill, but in no other, as all others are reversible.

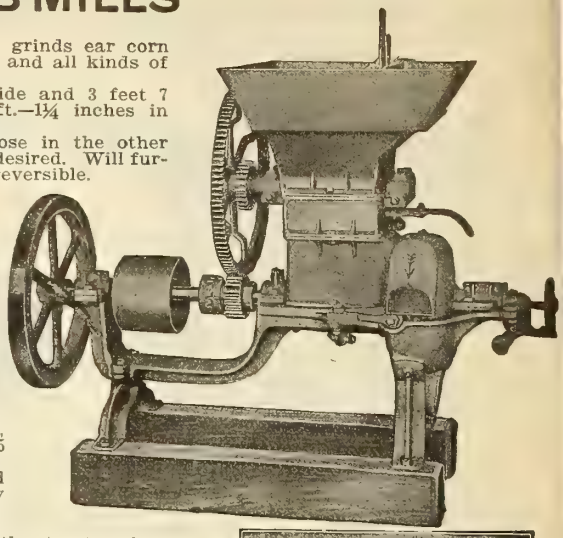
POWER.—4 to 8-horse to sweep power, or 4 to 6-horse steam power.

PULLEY.—Furnish an 8-inch diameter, 6½-inch face pulley, unless special size is ordered, which can be furnished without extra charge.

SPEED.—Horses, 800 to 1,000 revolutions per minute; steam, 1,000 to 1,200.

CAPACITY.—Ear corn, with shucks off, 8 to 18 bushels. If corn is new or wet, the work can be done but not so fast. Shelled corn, 8 to 20 bushels per hour. All kinds of small grains separately, or corn and oats or other grains mixed, 6 to 15 bushels per hour.

Price of This Mill, Complete, With Extra Set of Plates.....$65.00



STYLE L.—No. 1.

Has double breakers, with partition hopper, pin breaker and safety bottom. It grinds ear corn with or without shucks on, shelled corn, oats, rye, barley, cheat screenings, or any kind of small grain separately, or any two or more mixed, for feed.

DIMENSIONS AND WEIGHT.—4 feet 2 inches long, 2 feet 3 inches wide, and 3 feet 2 inches high. Weight of mill, 560 pounds; weight of fly wheel, 55 pounds. Shaft.—1½-inch; cold-rolled steel.

GRINDING PLATES.—12 inches in diameter, of extremely hard metal, and very durable. Are reversible and self-sharpening, having double the capacity of non-reversible plates.

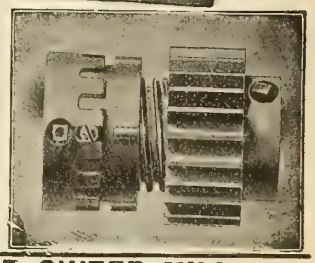
POWER.—8 to 12 horses to sweep power; 6 to 10 horse steam power.

PULLEY.—8-inch diameter, 6½-inch face; can furnish larger, if desired, without extra charge.

SPEED.—Steam power, 1,000 to 1,200 revolutions per minute; horse, 800 to 1,000 revolutions.

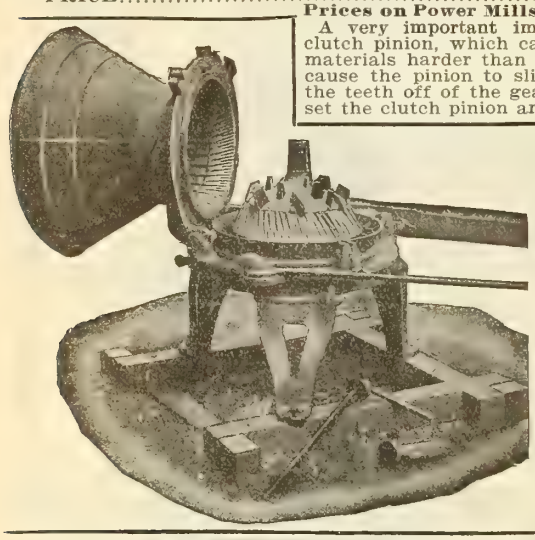
CAPACITY.—Ear corn with shucks on, 10 to 20 bushels per hour; with shucks off, 15 to 30 bushels. If corn is new, wet or frozen, the work can be done equally as well, but not so fast. Shelled corn, 25 to 40 bushels per hour. All other small grains separately, or corn and oats or other grains mixed, 15 to 30 bushels per hour.

PRICE.....$75.00



Prices on Power Mills Subject to Special Discount.

A very important improvement (see cut) consists of a friction clutch pinion, which can be adjusted so that iron or other foreign materials harder than the grain will clog the double breakers and cause the pinion to slip on the friction, and thus avoid breaking the teeth off of the gear or the pinion. Directions showing how to set the clutch pinion are pasted on each machine.



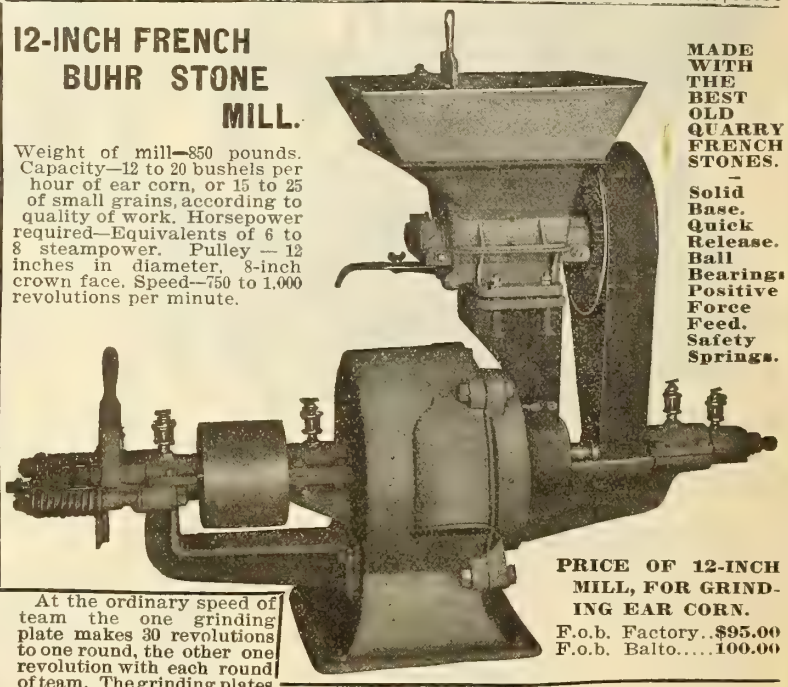
SCIENTIFIC NEW GEARED SWEEP MILL.

Its gearing consists of three gear pinions, which revolve on independent chilled studs. The mill grinds all grains, but is especially effective and rapid on ear corn, and our double-action feature, which is applied to these mills, prevents any cobs lodging in hopper at the end of a run. Its capacity is equal to any mill for any given quality of work. Weight of mill, 700 pounds.

Price of Mill, With Extra Plates and Two Baskets.....$35.00

12-INCH FRENCH BUHR STONE MILL.

Weight of mill—850 pounds. Capacity—12 to 20 bushels per hour of ear corn, or 15 to 25 of small grains, according to quality of work. Horsepower required—Equivalents of 6 to 8 steampower. Pulley — 12 inches in diameter, 8-inch crown face. Speed—750 to 1,000 revolutions per minute.



MADE WITH THE BEST OLD QUARRY FRENCH STONES.

—

Solid Base. Quick Release. Ball Bearings. Positive Force Feed. Safety Springs.

PRICE OF 12-INCH MILL, FOR GRINDING EAR CORN.

F.o.b. Factory..$95.00
F.o.b. Balto.....100.00

Shipping Weight, 1,050 Lbs. Length of Sweep, 12 ft.

—

Write for Special Prices.

THE SCIENTIFIC DOUBLE-ACTION TRIPLE-GEARED MILL.

Something Entirely New.

At the ordinary speed of team the one grinding plate makes 30 revolutions to one round, the other one revolution with each round of team. The grinding plates revolve in opposite directions. Power attachment is furnished, so that a corn sheller, feed cutter, saw or similar machines can be operated when grinding is done; plates can be removed and mill used only as a power; 15-foot tumbling rod with each attachment; we furnish pulley 15x4, 20x4, or 24x4; tumbling rod makes 58 revolutions to one round of horses. Capacity—Small grain, 12 to 18 bushels per hour, two horses; 10 to 15 bushels of ear corn, according to condition of grain and fineness of feed; proportionately increased with four horses.

Price of Mill for Small Grain and Ear Corn.....$65.00

GRIFFITH & TURNER POWER GRINDER.

No. 2. Large Grinder.—Burrs 14 inches in diameter. Capacity 30 to 50 bushels per hour, requiring 12 to 16 horse-power. Engine should be run 800 to 1200 revolutions per minute. Weight, 450 pounds.....**$45.00**

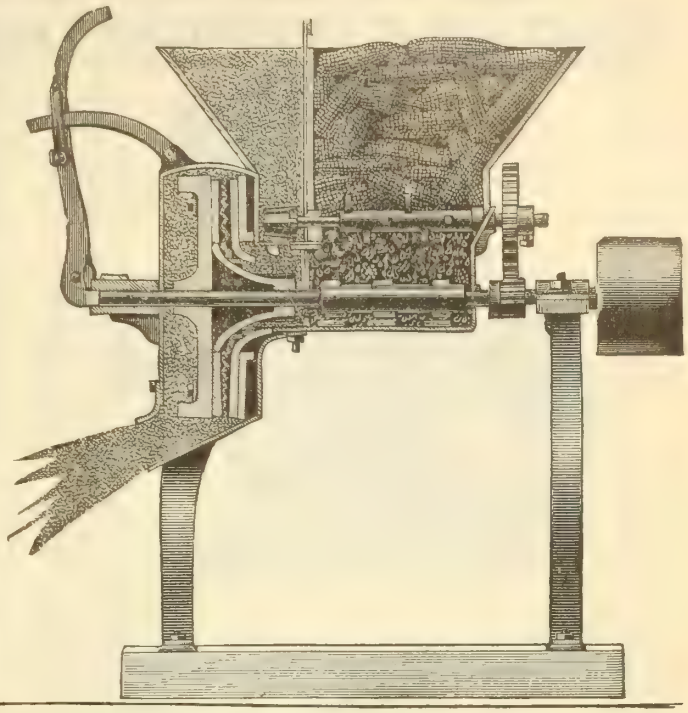
No. 1. Medium Grinder.—Burrs 12 inches in diameter. Capacity 20 to 40 bushels per hour, requiring 8 to 10 horse-power. Engine should be run 800 to 1200 revolutions per minute. Weight, 400 pounds.....**$40.00**

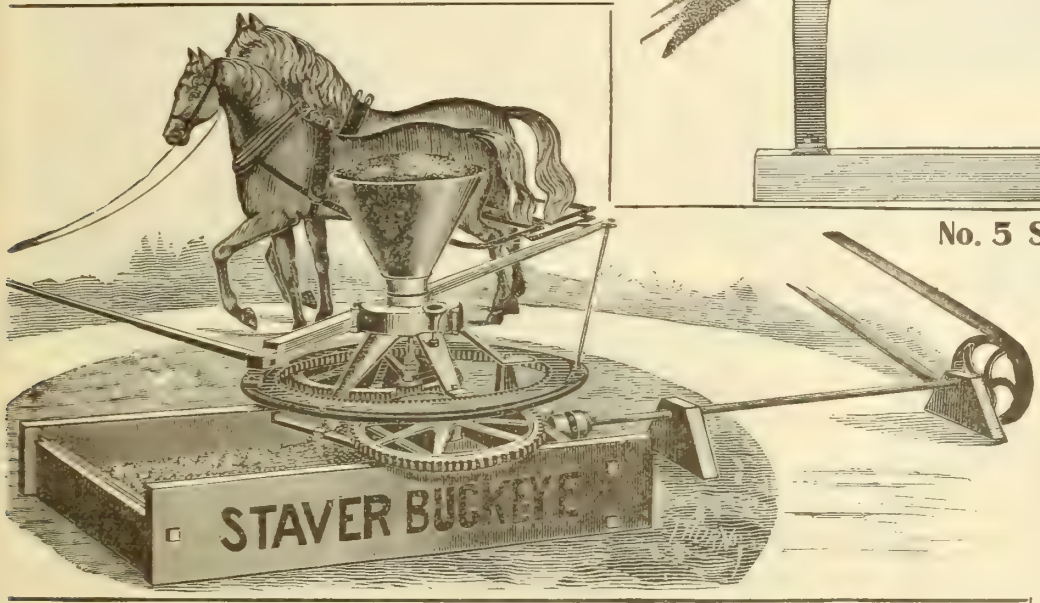
Special Discount for Cash.

The Only Mill that can be set to Regulate and Grind Successfully Ear Corn and Small Grain both at the Same Time.

No mill is complete without this desirable feature. This is accomplished by having a partition in the hopper and a feeding arrangement for each side. The main shaft is made of cold rolled steel, with good long bearings filled with an extra grade of Babbit metal. The two bearings are cast in one solid piece on the main frame, thus making it impossible for the bearings to get out of line. The shaft is carefully balanced after the fly-wheel and plate are attached, making a steady and light-running mill.

The grinding plates are made of chilled metal and steel mixed, and have the teeth shaped to give the best possible results for light draft and for not heating the meal. An extra set of grinding plates free with each Power Mill. The fly-wheel is enclosed inside the mill, just where it is most needed, and out of the way. They are well made throughout and equal to anything in the market.





No. 5 Staver Buckeye Cob Mill and Power Combined.

FOR GRINDING EAR CORN OR SMALL GRAIN.

1. A rapid-grinding Corn and Cob Mill.
2. A mill that grinds fine either Ear Corn or Small Grains without change of plates.
3. A Cob Mill, a Mill for Small Grain, and a good Two-Horse Power combined in one light-running machine.

This mill has been thoroughly tested, and never fails to give satisfaction.

Price, - $55.00, Less Special Discount for Cash.

For Extra Sweep, $4.00

New Model Sweep Grinder.

Capacity under Ordinary Conditions, 5 to 8 bus. per Hour, Requiring 1 to 2 Horses. Weight, 400 lbs.

EVERY MILL GUARANTEED.

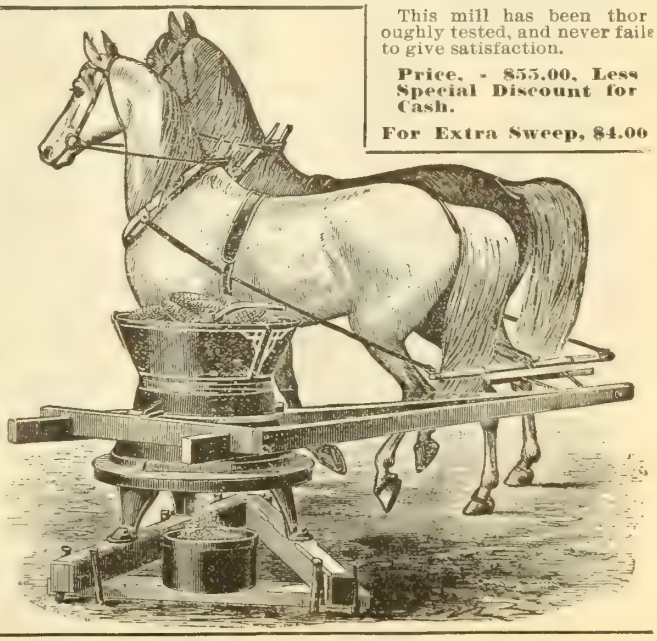
These Mills will Grind all Kinds of Grain as well as Corn with Cob, Oats, Rye, etc., Mixed.

The Grinding Rings are Made from Specially Prepared Hard White Metal, and will Grind Thousands of Bushels Without Replacing.

Every Farmer His Own Miller—Saves Your Time and Tollage—Saves its Cost in One Year—Grinds either with Cob or without Cob—The Mill will last a Life Time—No Farmer can Afford to do without One.

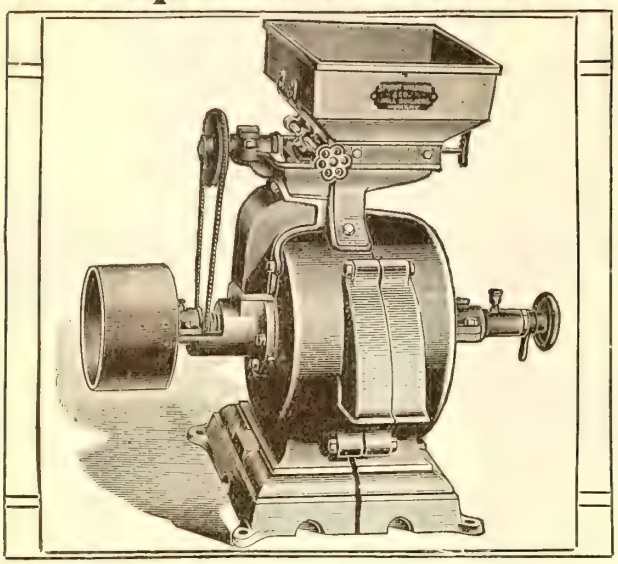
We have two sets of patterns of grinding rings or concaves for the New Model Mill—one set for fine grinding and one set for coarser, and when not specified in order, we furnish one fine and one coarse in mill, which grinds the meal medium fine and gives general satisfaction. However, when grinding meal for table use, two fine concaves are used, and when grinding for sheep or horses, two coarse concaves give best results, as they grind faster, but not as fine. The concaves are easily changed; only one set are furnished, unless otherwise ordered, and at an additional cost.

Price, - $20.00. Special Discount for Cash.



ALL KINDS OF MACHINERY REPAIRED.

The Sprout Waldron Vertical French Burr Mill.



THESE mills are heavy, strong and durable, and expensive to build, there being a large amount of machine work upon them. It will be seen by comparing the description and weight of these mills with the price list that the prices are very low for the class of work. No purchaser would be willing to have them built in a cheaper manner, or any of the improvements left off. Furnished with ball bearings, and the shells are babbitted, turned and bored. Well built and designed for farm use.

Monarch "Light Power" Mills.

WITH these mills a farmer can grind his own shelled corn, corn and cob, oats and rye, screenings, buckwheat or barley, crack corn for his chickens, or grind the finest quality of cornmeal for his table.

The burrs are genuine solid French burrs, same as used in our larger mills, carefully selected for the work they have to do. Anyone following our instructions, which are very simple, can keep the burrs and mill in good order and run the same very successfully.

Dimensions, 10-inch Mill. — Diameter burrs, 10 inches. Weight—325 pounds. Size pulley—7x4. Revolutions per minute—1,000 to 1,200. Capacity—Table meal, 2 to 4 bushels; feed meal, 4 to 8 bushels. Length—32 inches. Height—27 inches. Width—17 inches. Floor space—16x16. Height from floor to centre of spout—8½ inches. Height from floor to centre of shaft—10 inches. Price—List, **$100.00.** Retail, f.o.b. fac., **$55.00**; f.o.b. Balt., **$58.00**

Twelve-inch Monarch Standard French Burr Mill.

Dimensions.—Length over all, 49 inches; width over all, 24 inches; height over all, 32 inches; distance from floor to centre of shaft, 13 inches; floor space base occupies, 20x39 inches; driving pulley, 8 inches diameter, 5 inches face, covered with leather. Weight, 500 pounds.

Speed, Capacity, Etc.—1,000 to 1,200 revolutions per minute. Capacity, 5 to 7 bushels of table meal, 12 to 15 bushels feed meal, per hour. Power required, 4 to 6 horsepower.

Price—List, **$125.00.** Retail, f.o.b. fac., **$68.75**; f.o.b. Balt., **$73.00**

Sixteen-inch Monarch Standard French Burr Mill.

Dimensions.—Length over all, 56 inches; width over all, 25 inches; height over all, 39 inches; distance from floor to centre of shaft, 15 inches; floor space base occupies 22x45 inches; driving pulley, 10 inches diameter, 6 inches face; covered with leather. Weight, 800 pounds.

Speed, Capacity, Etc.—1,000 revolutions per minute. Capacity—10 to 12 bushels fine table meal, 20 to 25 bushels feed meal, per hour. Power required, 6 to 10 horsepower.

Price—List, **$180.00.** Retail, f.o.b. fac., **$90.00**; f.o.b. Balt., **$95.00**

Twenty-inch Monarch Standard French Burr Mill.

Dimensions.—Length over all, 67 inches; width over all, 27 inches; height over all, 41 inches; distance from floor to centre of shaft, 16 inches; floor space base occupies 24x54 inches; driving pulley, 12 inches diameter, 8 inches face; covered with leather. Weight, 1,350 pounds.

Speed, Capacity, Etc.—900 revolutions per minute. Capacity—15 to 20 bushels fine table meal, 40 to 50 bushels feed meal, per hour. Power required, 10 to 15 horsepower.

Price—List, **$250.** Retail, f.o.b. fac., **$125**; f.o.b. Balt., **$132.**

Twenty-four-inch Monarch Standard French Burr Mill.

Dimensions.—Length over all, 70 inches; width over all, 32 inches; height over all, 48 inches; distance from floor to centre of shaft, 17 inches; floor space base occupies 27x57 inches; driving pulley, 16 inches diameter, 8 inches face; covered with leather. Weight, 1,800 pounds.

Speed, Capacity, Etc.—800 revolutions per minute. Capacity—20 to 25 bushels fine table meal, 60 to 70 bushels feed meal, per hour. Power required, 15 to 25 horsepower.

Price—List, **$320.** Retail, f.o.b. fac., **$160**; f.o.b. Balt., **$171.**

Thirty-inch Monarch Standard French Burr Mill.

Dimensions.—Length over all, 70 inches; width over all, 39 inches; height over all, 54 inches; distance from floor to centre of shaft, 20 inches; floor space base occupies 30x53 inches; driving pulley, 20 inches diameter, 8 inches face; covered with leather. Weight, 2,500 pounds.

Speed, Capacity, Etc.—750 revolutions per minute. Capacity—25 to 30 bushels fine table meal, 70 to 100 bushels feed meal, per hour. Power required, 20 to 25 horsepower.

Price—List, **$420.** Retail, f.o.b. fac., **$210**; f.o.b. Balt., **$225.**

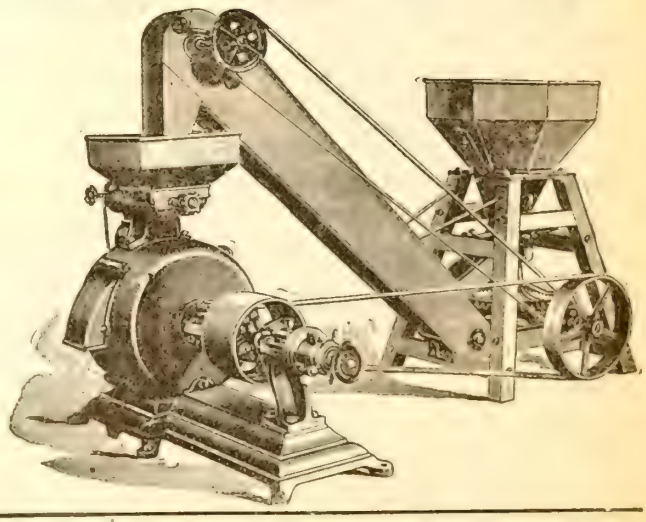
Combined Monarch Corn and Cob Outfit.

ESPECIALLY ADAPTED FOR FARMERS AND THRESHERMEN.

The accompanying illustration represents the mill and an improved crusher combined. The crusher is driven from the mill spindle by a 3-inch belt. The crushed corn is carried to the mill hopper by an elevator, saving extra handling. This makes a very handy combined mill, the crusher requiring very little power, and need only be run while grinding ear corn, and can be stopped or started at any time while the mill is in motion. The most successful combined burr stone mill ever offered to the trade.

The cut shows mill and crusher combined on all of the sizes except the special 12-inch mill, for light power, that being constructed slightly different.

Write for Special Prices on Mill and Crusher combined.



Rubber Belting for Agricultural and Other Machinery.

THREE AND FOUR PLY.

SEE PAGE 129.

Sizes—3, 4, 5 and 6 inches.

PRICES MILL AND CRUSHER COMBINED.

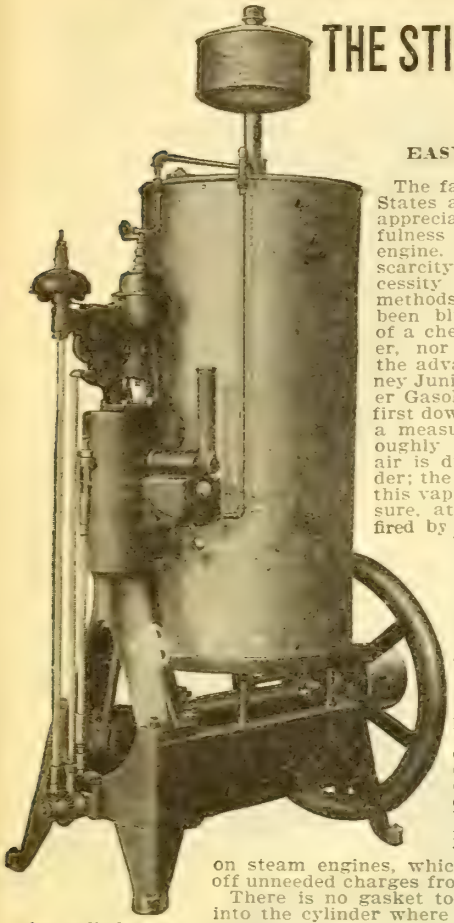
						—RETAIL PRICES.—	
					List Price.	f.o.b. Fac.	f.o.b. Balto.
12-inch	Mill, No.	1	Crusher combined.....		$200.00	$100.00	$105.75
16-inch	" "	1	" "		256.00	128.00	134.50
20-inch	" "	1	" "		324.00	162.00	171.00
20-inch	" "	2	" "		360.00	180.00	191.00

FLOOR SPACE.

12-inch	Mill, No.	1	Crusher, occupies	86x46	inches
16-inch	" "	1	" "	90x54	"
20-inch	" "	1	" "	102x67	"
20-inch	" "	2	" "	104x67	"

THE STICKNEY JUNIOR 3-HORSE POWER GASOLINE ENGINE

SAFE, SIMPLE, STRONG



EASY TO OPERATE.

The farmers of the United States are just beginning to appreciate the immense usefulness of a small gasoline engine. They feel keenly the scarcity of labor and the necessity of using the best methods, and they have not been blind to the necessity of a cheap and reliable power, nor slow to appreciate the advantages of the Stickney Junior Three-Horse Power Gasoline Engine. On the first downstroke of the piston a measured charge of thoroughly mixed gasoline and air is drawn into the cylinder; the upstroke compresses this vapor to the proper pressure, at which instant it is fired by an electric spark or by a hot tube and the combustion of this vapor creates a pressure that drives the piston downward, revolving thereby the crank shaft, fly-wheel and belt pulley. On the return upstroke of the piston the burnt gases are expelled through the exhaust valve and exhaust pipe and this operation is repeated. The speed of the engine is regulated by a governor, similar in principle to that generally found on steam engines, which cuts out or shuts off unneeded charges from the cylinder.

There is no gasket to leak and let water into the cylinder where it is not wanted, as the cylinder and cylinder head are cast in one piece without joints. The cylinder is provided with but one valve opening, the valve being completely water-jacketed and each fresh charge passes over it in entering the cylinder. This avoids the burning out of the exhaust valve and all annoyance attending it. Steel forgings are used for crank shaft, connecting rod and valves. Every part is made of material best adapted for its use and the workmanship is of the highest grade. The mixer is the lungs of every engine. The mixer used on the Stickney Junior gives to the cylinder under all conditions of speed and weather a correctly proportioned and thoroughly mixed charge of gasoline and air. The electric igniter is outside the cylinder where it is cool: it can be taken apart and replaced without tools and the spark can be examined at any time. Current is furnished by six dry batteries, which go with every engine. The hot tube igniter is efficient and can be operated anywhere without danger of fire, and the wind cannot blow it out.

No. 3 STICKNEY JUNIOR

Is a full three-brake horse-power gasoline engine complete, with both hot tube and electric igniters, batteries, water tank, gasoline tank and pulley. Can be furnished with pulley either 8-inch, 12-inch or 16-inch diameter by 6-inch face, but unless otherwise ordered 12-inch pulley will be furnished. The nominal speed of the engine is 360 revolutions per minute. Shipping weight, 1,050 pounds. The gasoline tank holds three gallons and is attached to the top of the water tank, constituting a gravity feed. This type of engine is preferred by most users.

PRICE $160.00

No. 4 STICKNEY JUNIOR

Is exactly the same as the No. 3, except that the gasoline tank holds ten gallons and can be set outside the building and connected to the engine by pipes. The gasoline is pumped from this tank to the engine by a pump operated by the engine and constitutes a pump feed. This type of engine is recommended only when gasoline must be stored outside the building.

PRICE $170.00

FOR USE WITH BELT POWER, HORSE POWER, WIND OR HAND POWER.

16-INCH TIGHT AND LOOSE PULLEYS.

CAN BE ATTACHED TO ANY WINDMILL PUMP OR GASOLINE ENGINE.

COMBINATION PUMPING JACK.

ADJUSTABLE STROKE, 6 TO 10½ INCHES.

Figure 1049 represents the Combination Pumping Jack, to be used in connection with an ordinary pump stand without disarranging the pump or pipes in any manner. It is arranged to be driven by belt power, horse-power, gasoline engine, windmill, or hand power. The entire outfit is mounted substantially on a heavy iron base. It is fitted with drop forged steel crank shaft, turned and mounted in babbitted boxes, so arranged that all wear can be taken up. Has walking beam and is so arranged that the stroke can be adjusted from 6 to 10½ inches. When driven by belt power it is fitted with tight and loose pulleys, and is back geared 6 to 1.

When desired to be used by horse power or steam it is fitted with balance wheel, which connects with the main crank shaft by means of a pinion, which serves to carry the pitman over the dead points in a regular movement, and prevents the rebounding of the horse power lever. When driven by horse power it has direct stroke.

One of the advantages of this combination jack is that in many districts the wind will fail for weeks at a time, under which circumstances the pumping jack can be connected and driven by gas engine or horse power, or can be operated by hand, thus making it a combination machine adapted to all purposes. It can be used in connection with any style of windmill pump stand now on the market.

PRICE LIST.—Figure 1049.

No.		List Price.	Retail Price.
366½	—Combination Pumping Jack for horse power (pump stand not included)	$35.00	$26.25
367½	—Combination Pumping Jack for belt power (pump stand not included)	35.00	26.25

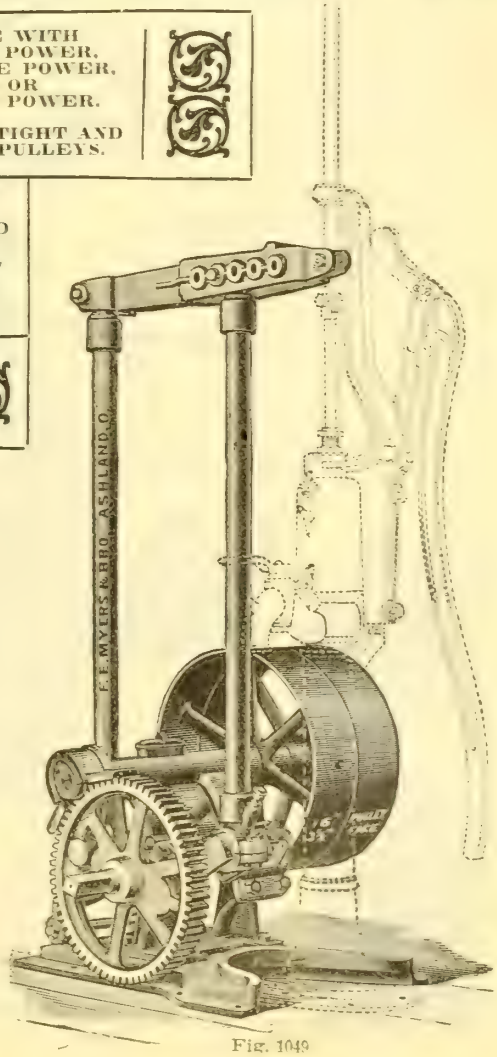
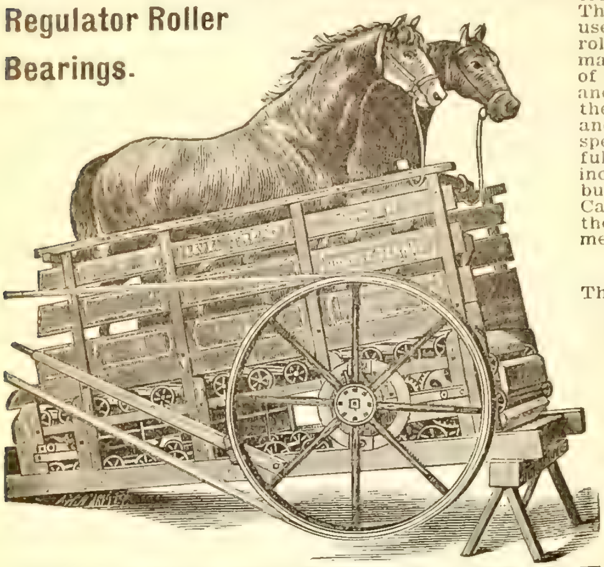


Fig. 1049

Two-Horse Level-Tread Power Speed Regulator Roller Bearings.



These are much superior to the incline or common tread powers, in that they are not injurious to the horses ankles, and horses with caulks and toes on shoes are sure to cut out the tread plank in a very little time. This is quite an item of expense, but in these powers the animals may be used either barefooted or with smooth shoes. Owing to the introduction of roller bearings, these machines can be set at a lower elevation than other makes, and at the same time give about 20 per cent. increase in the amount of speed developed, and allowing the animals to walk not more than a mile and a half an hour. The speed regulator, attached to the main shaft, is the most successful device ever employed to control the speed of a power and make it entirely safe. It can be adjusted to run the power any desired speed. By the use of this regulator these powers can be used to successfully operate any kind of machinery. We can furnish the common or incline tread powers if wanted. They are not made of cheap materials, but of the first quality. The price is a consideration in some instances. Can furnish both the over-shot and under-shot powers. For anything in the line of farm machinery, except the over-shot threshers, we recommend the double-geared under-shot powers.

LEVEL-TREAD POWERS.

Three-horse Direct-geared Level-Tread Power, with Speed Regulator, Trestle and Bridge....**$185.00**

Two-horse Double-geared Level-Tread Power (*), with Speed Regulator, Trestle and Bridge.... **140.00**

Two-horse Double-geared Under-shot Level-Tread Power, with Speed Regulator, Trestle and Bridge.... **135.00**

Two-horse Direct-geared Level-Tread Power (*), with Speed Regulator, Trestle and Bridge.... **130.00**

Two-horse Common-Tread Power, with Speed Regulator, Trestle and Bridge.... **95.00**

One-horse Double-geared Level-Tread Power (*), with Speed Regulator, Trestle and Bridge.... **100.00**

One-horse Double-geared Under-shot Level-Tread Power (*), with Speed Regulator, Trestle and Bridge.... **90.00**

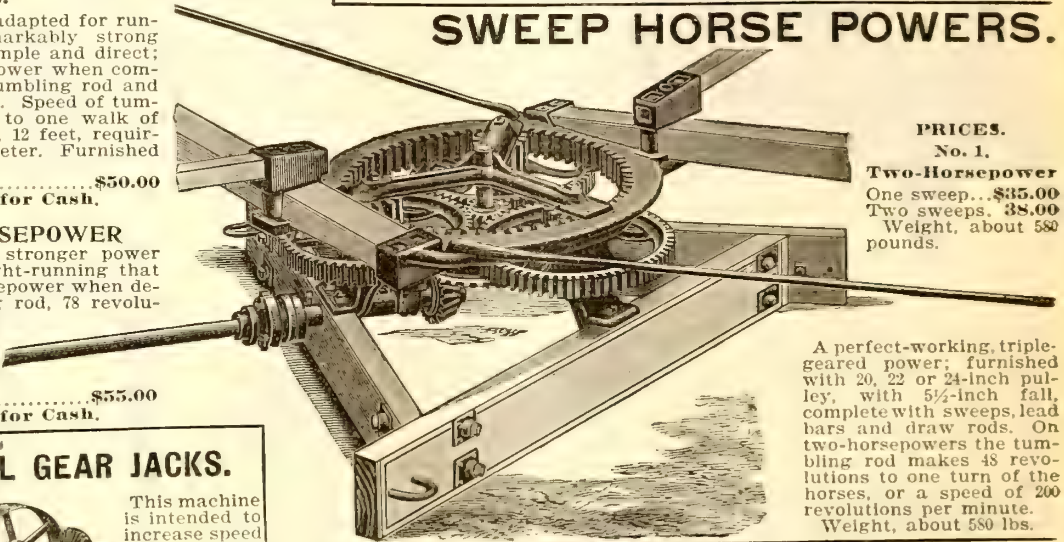
One-horse Direct-geared Level-Tread Power (*), with Speed Regulator, Trestle and Bridge.... **85.00**

One-horse Common or Incline Tread Power, with Speed Regulator, Trestle and Bridge.... **80.00**

(*) If wanted with roller bearings, add $5.

Special Discount for Cash.

SWEEP HORSE POWERS.



No. 2—FOUR-HORSE SWEEP POWER.

2 Sweeps.

This power is specially adapted for running power mills. Remarkably strong light-draft; gearing very simple and direct; steel shafts. Weight of power when complete, with two sweeps, tumbling rod and pulley, is about 730 pounds. Speed of tumbling rod, 60 revolutions to one walk of horses. Length of sweep, 12 feet, requiring a circle of 27 feet diameter. Furnished with 20 or 24-inch pulley.

Price....**$50.00**

Special Discount for Cash.

No. 3.—FOUR-HORSEPOWER

This is a heavier and stronger power than No. 2, but yet so light-running that can be used as a two-horsepower when desired. Speed of tumbling rod, 78 revolutions to one walk of the horses. Can run saw or feed cutter by belting direct from tumbling rod.

Weight, 970 pounds.

Price, with two sweeps....**$55.00**

Special Discount for Cash.

PRICES.

No. 1.

Two-Horsepower

One sweep...**$35.00**

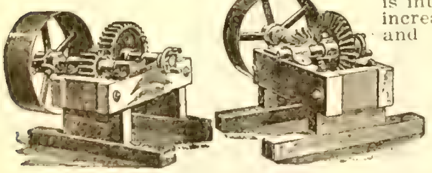
Two sweeps. **38.00**

Weight, about 580 pounds.

A perfect-working, triple-geared power; furnished with 20, 22 or 24-inch pulley, with 5½-inch fall, complete with sweeps, lead bars and draw rods. On two-horsepowers the tumbling rod makes 48 revolutions to one turn of the horses, or a speed of 200 revolutions per minute.

Weight, about 580 lbs.

SPUR AND BEVEL GEAR JACKS.



This machine is intended to increase speed and transmit power by belt. The spur gear transmits the motion at a right angle with the tumbling rod, and the bevel gear transmits it in a line with tumbling rod and gives the band wheel two revolutions to one of the tumbling rod.

Price....**$12.00**

Special Discount for Cash.

AGRICULTURAL SUCTION HOSE.

Specially designed for use on our Faultless Low Down Force Tank Pumps. This hose is composed of good rubber on the exterior; the interior having a galvanized, flat spiral wire to give the hose the required rigidity, and prevent it from collapsing. The ends, for about 6 inches, are of soft rubber, without the wire, for the purpose of enabling the operator to fasten securely together. Made in two 10-foot sections. This hose is used for all suction purposes, such as draining cellars, cisterns, etc.

PLAIN BORE, GALVANIZED, FLAT SPIRAL WIRE.

Per foot....**40c.**

RUBBER HOSE.

TRIX.

3-PLY

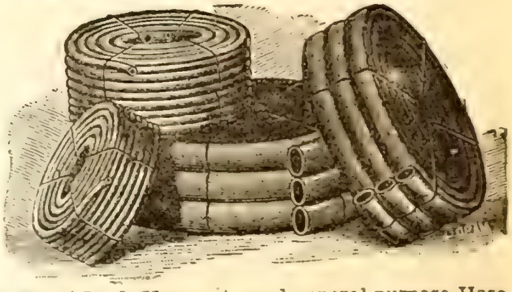
¾-INCH

HOSE.

This is a moderate-pressure Hose.

Price.

8c. per ft.



ORIOLE—3-Ply ¾-Inch Hose.—A good general purpose Hose. Will stand 100 lbs. pressure. Price....**10c. per foot.**

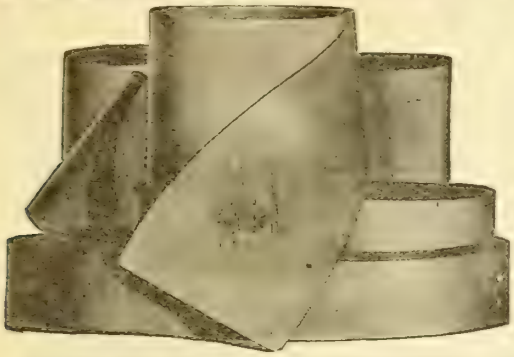
G. & T. EXTRA—3-Ply ¾-Inch Hose.—This is an extra quality and will stand 125 lbs. pressure. Price....**12c. per foot.**

CREST—3-Ply ¾-Inch Hose.—This is strictly a first-class Hose, and is made to stand 200 lbs. pressure. Price..**15c. per foot.**

GRIFFITH—5-Ply ¾-Inch Hose.—This is the best Hose we handle. It is made from high-grade material, and will stand 600 lbs. pressure. Price....**16c. per foot.**

RUBBER BELTING

FOR AGRICULTURAL AND OTHER MACHINERY.



We can furnish a full line of this fine Rubber Belting, but only carry in stock the following sizes:

	List Price. Per Foot.	Retail Price. Per Foot.
3-inch, 3-ply	26c.	12c.
4-inch, 4-ply	42c.	19c.
5-inch, 3-ply	43c.	20c.
5-inch, 4-ply	52c.	24c.
6-inch, 4-ply	62c.	28c.

Special Prices for Cash.

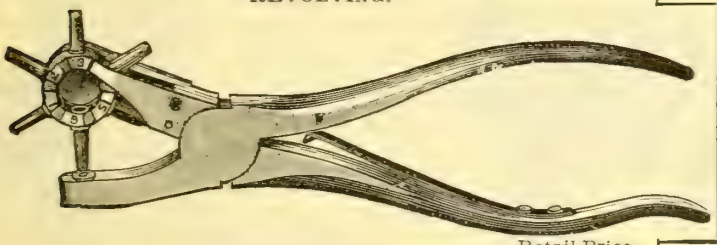
Hand-Cut Raw-Hide Belt Lacing.

3/16-inch. List price, per 100 feet	$1.50
1/4-inch. List price, per 100 feet	2.00
5/16-inch. List price, per 100 feet	2.75

Special Prices in Bundles of 100 Feet.

BELT PUNCHES.

REVOLVING.



	Retail Price, Each.
Four-tube Drive	$0.75
Six-tube Drive	1.00
Single-tube Drive	.40

ROUND.

	Retail Price, Each.
Nos. 1 to 6	10c.
Nos. 7 to 9	15c.

ADZE-EYE NAIL HAMMER.

EXTRA TOOL STEEL.

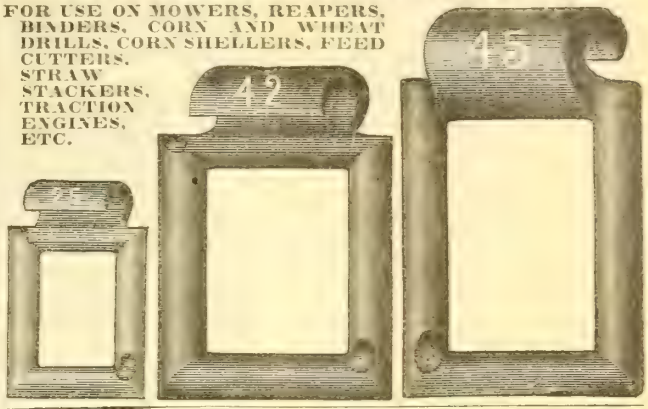
SELECTED HICKORY HANDLES.

		Retail Price, Each
No. 91½.	Weight, 1 pound. Not polished	40c.
No. 41½.	Weight, 1 pound. Polished	60c.

Above Weights Do Not Include Handles.

Link Chain Belting.

FOR USE ON MOWERS, REAPERS, BINDERS, CORN AND WHEAT DRILLS, CORN SHELLERS, FEED CUTTERS, STRAW STACKERS, TRACTION ENGINES, ETC.



Number.	Links per Foot.	Working Strain, Pounds.	List Price, Per Foot, All Plain Links.	Retail Price, Per Link.
25	13.3	75	12c.	2c.
32	10.4	150	12c.	2c.
33	8.6	200	12c.	3c.
35	7.4	250	12c.	3c.
42	8.75	300	13c.	3c.
45	7.4	350	13c.	3c.
48	6.	375	15c.	4c.
55	7.4	450	18c.	4c.
62	7.25	650	24c.	5c.
65	5.66	550	24c.	6c.
72½	7.25	925	30c.	7c.
76½	5.8	700	30c.	8c.

RIVETING HAMMER.

PLAIN EYE, POLISHED AND HANDLED.

No.	Weight.	List Price. Per Doz.	Retail Price, Each.
230	4 oz.	$5.50	40c.
231	7 oz.	5.75	45c.
232	9 oz.	6.00	50c.
233	12 oz.	6.25	55c.

Above Weights Do Not Include Handles.

Engineers' Hand Hammer

FULL POLISHED AND HANDLED.

No.	Weight.	List Price, Per Doz.	Retail Price, Each.
381	1 lb. 10 oz.	$13.00	75c.
382	2 lbs.	14.00	85c.

Above Weights Do Not Include Handles.

Machinists' Ball Pein Hammer.

FULL POLISHED AND HANDLED.

No.	Weight. Lb.	Oz.	List Price, Per Doz.	Retail Price, Each.
309	..	12	$12.00	75c.
310	1	..	12.50	80c.
311	1	4	13.50	85c.
312	1	8	14.50	90c.

Above Weights Do Not Include Handles.

THE ASHLAND SURE GRIP FLEXIBLE DOOR HANGER.

The Ashland Sure Grip patented Flexible Barn Door Hanger is constructed with a lug extending upward around the bottom of the track (see Fig. 991) which locks it securely and prevents throwing off under any circumstances.

The frame is malleable iron with hood covering the wheel to prevent snow or sleet from accumulating thereon. The wheel is 3¼ inches in diameter with a wide groove, and revolves on hard steel rollers surrounding a large steel axle securely held in position by a cotter and easily removed.

The flexible feature.—The door can be swung out from the bottom at any angle (see cut, Fig. 993). The flexible feature allows the top of the door to move away from the building at least one-half an inch. The advantage of this is that all doors naturally warp or the boards on the side of the barn become cupped up, thus making an uneven surface, in which case a door mounted with the ordinary hanger could not be moved.

The track is heavy special high carbon, stiff steel, 3-16 x 1 1-4 inches, supported by a heavy steel bracket with square shoulder mortised through the track every 17 inches, thus making a very substantial fastening and adds materially to the stiffness of the track. The track can be placed with either edge up.

Fig. 994.

MYERS

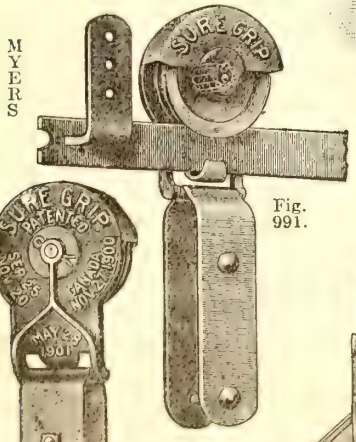


Fig. 991.

Fig. 989.
MYERS.

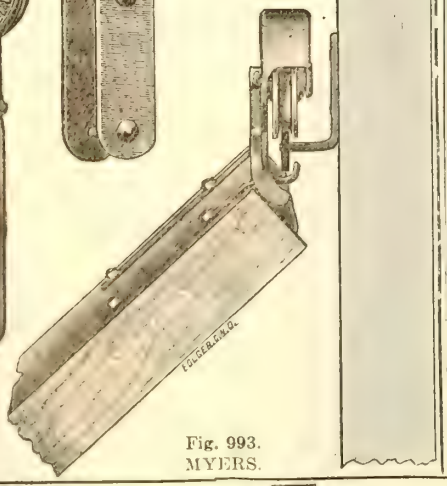
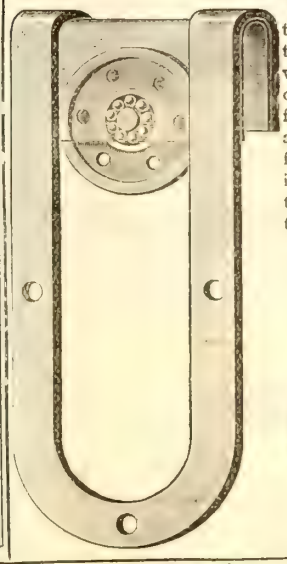


Fig. 993.
MYERS.

NEY ANTI-FRICTION BARN-DOOR HANGER No. 2.



This hanger is anti-friction, containing roller bearings, which cause the wheel to roll easily and prevent wear. The frame is made of special open hearth steel, and the strength is fully sufficient for the heaviest doors, and has hood protecting the wheel from snow and ice. The wheel is 4 inches in diameter, and of standard tread; therefore can be used on other tracks. Price, per pair . . . . . 75c.

STAY ROLLERS.

For use on Barn Door Hangers. Price, each . . . . . 15c.

NEY STEEL BARN-DOOR TRACK.

This track is made of Special Carbon Open Hearth Steel, 1x3-16 stock, and has heavy brackets well and substantially riveted to it at every 12 inches. The ends are made with tongue and groove to match. The track is made in 4, 6, 8 and 10-foot lengths. It is easily erected, and requires no roofing or covering of any kind. Price, per 100 feet $5.00

THE CANTON HOIST.

Can be used to advantage in factories of all kinds, foundries, quarries, mills and warehouses, also by contractors, stone masons, carpenters and all classes of mechanics, as well as farmers. They are indispensable on the farm.

No. 33.—2 sheaves above, 2 sheaves below; for ½ to ¾ rope; capacity, 1,500 lbs. One man can lift 500 lbs. 4 in. sheaves; Fac. list, $6 . Our retail price. . . . $4.00

No. 37.—2 sheaves above, 2 sheaves below; for ½ in. rope; capacity, 800 lbs. One man can lift 400 lbs. 3 in. sheaves; Fac. list, $4.00. Our retail price 3.00

Rope not included in price.

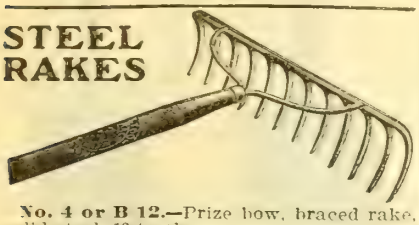
FORKS AND RAKES.

HAY FORKS.

SILVER POLISH, DAMASCUS TEMPER.

No. 345 or 026.—Two-tine hay, strap ferrule, straight 6 ft. handle.
Retail price.....50c. each.
No. 341 or 036.—Three-tine hay, strap, 5 ft., straight handle.
Retail price.....60c. each.
No. 141 or 36.—Three-tine hay, common or plain, 6 ft., straight handle.
Retail price.....50c. each.
Seven or Eight Foot Handle Forks, Extra.

STEEL RAKES



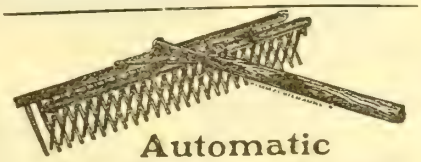
No. 4 or B 12.—Prize bow, braced rake, solid steel, 13 teeth.
Retail price.....60c. each.
No. 6 or B 14.—Prize bow, braced rake, solid steel, 15 teeth.
Retail price.....75c. each.

No. 210 or 10 C. Single shank, solid steel, 10 in.
Each.....40c.
No. 212 or 12 C. Single shank, solid steel, 12 in.
Each.....45c.
No. 214 or 14 C. Single shank, solid steel, 14 in.50c. each.
No. 216 or 16 C.—Single shank, solid steel, 16 in.....55c. each.

Each rake is made of one piece of solid steel; no iron; no welding. They are hardened, oil tempered and beautifully finished.

MANURE FORKS.

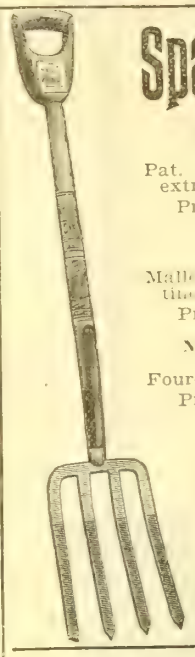
No. 44½.—Four-tine manure, long handle, common ferrule.
Retail price.....50c. each.
No. 23 or 344.—Oval four-tine, light, not strapped.....50c. each.
No. 124 or 3044.—Four-tine, 4½ ft. handle, strap ferrule.....60c. each.
No. 100 or 044½.—Oval four-tine, 4¼ ft. handle, strapped and capped.....60c. each.
No. 124 or 1124.—Four-tine, patent locked, strapped.....60c. each.
No. 1106.—Patent locked, extra heavy, full polished, strapped.....75c. each.
No. 605 or 054½ X.—Five-tine, strapped, long handle.....85c. each.
No. 606 or 064½ X.—Six-tine, strapped, long handle.....$1.00 each.
No. 24½ or 304 D.—D handle, four-tine.....50c. each.
No. 105½ or 04 D.—D handle, four-tine, strapped.....75c. each.
No. 107½ or 4 D.—D handle, four-tine, cap ferrule.....65c. each.
No. 505½ or 05 D X.—D handle, five-tine, cap ferrule.....85c. each.
No. 506½ or 06 D X.—D handle, six-tine, cap ferrule.....$1.00 each.
No. 62 or 150.—Four-tine, diamond tine, heavy, malleable D handle.....$1.00 each.



Automatic Self-Cleaning Lawn Rakes.

A backward motion of the rake from operator will clean all the teeth at once, thus, avoiding the disagreeable task of cleaning the teeth with the fingers. The teeth are made of the best hickory, and will not tear the sod or grass.
With 22 teeth...60c. With 26 teeth...70c.
Lawn King Rake, with 22 teeth.....40c.

Spading Forks



No. 170 or 1170.
Pat. Locked Spading Forks, extra heavy, strap ferrule.
Price.....90c. each.

No. 04½.
Malleable D handle, angular tines, strapped ferrule.
Price.....50c. each.

No. 177½ or 1177½.
Four-tine, angular back.
Price.....75c. each.

No. 27½ or L. 4.
Medium weight, angular tine, malleable D handle, strap ferrule.
Price.....75c. each.

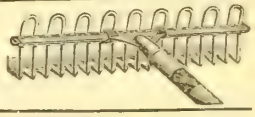
No. B 4.
Boys' four-tine.
Price...50c. each.

SPECIAL PRICES IN QUANTITIES ON ALL FORKS.
No. 1010 or 910.—Ten-tine, scoop shape, malleable D handle, strap ferrule.
Price.....$1.50 each.
No. 1012 or 912.—Ten-tine, scoop shape, malleable D handle, strap ferrule.
Price.....$1.75 each.
Especially for handling beets, onions, apples, corn, etc. Tine points are flattened and rounded, so as not to injure potatoes, etc.
No. 714.—Coke Forks, 14-tine, D handle, strap ferrule.....$1.85 each.
No. 710 or 100.—Ten-tine, D handle, stone forks. Price.....$1.50

MALLEABLE RAKES.

No.		Retail Price.
111 or 010 M.—	10-tooth, single shank, malleable rake..	15c. each.
113 or 012 M.—	12-tooth, single shank, malleable rake..	20c. each.
115 or 014 M.—	14-tooth, single shank, malleable rake.	25c. each.
117 or 016 M.—	16-tooth, single shank, malleable rake..	25c. each.
13 or B 12 M.—	12-tooth, braced shank, malleable rake..	25c. each.
15 or B 14 M.—	14-tooth, braced shank, malleable rake..	30c. each.
17 or B 16 M.—	16-tooth, braced shank, malleable rake..	30c. each.
1.—	Solid steel turf edger	50c. each.
30.—	Steel thistle dock cutter	50c. each.

THE BOSS GARDEN RAKE.



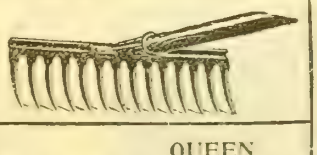
Strong, All-Steel, Tinned, Cheap.
No. 18.—15¾-inch head, 18 steel pointed teeth.....40c. each.
Boss 6-tooth weeder.....25c. each.

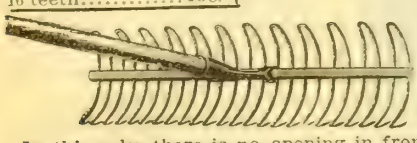
BUSH AND BRIAR HOOKS.

No. 380.—Axe-handle bush hook.....75c.
No. 390.—Two ring bush hook, 75c.
No. 393. Socket briar, $1.25.
With Knife on Back.

QUEEN STEEL GARDEN RAKE.

Neat, Strong and Durable. Bright Finished. Twisted Teeth.
14 teeth.....35c.
16 teeth.....40c.





QUEEN ALL-STEEL LAWN RAKE.

Reversible, Heavily Tinned.

In this rake there is no opening in front or back of head in which to collect dirt. As can be seen by the shape of the teeth, they run smooth and will not dig in the sod. The teeth being bent at the points, makes the rakes run smooth, and will not tear the soil. By reversing the double teeth are used for leaves and rubbish. 21-inch head, 24 teeth.....50c.

Corn, Potato and Manure Hooks and Corn Knives.

No. F 32.—Flat oval four-tine solid steel potato hooks.
Retail price.....50c. each.
No. F 35.—Extra heavy four angular tine Jumbo potato hooks. Retail price.....60c. each.
No. 132 or 1132.—Patent locked heavy potato hooks.
Retail price.....60c. each.
CORN HOOKS (Retail Prices).—Regular pattern, not adjustable, 20c. each. Patent folding, with serrated edge, 35c. each.
CORN KNIVES.—Clipper, 25c. each. Eureka, 50c. each; 15-inch solid steel, forged, 30c. each; 18-inch solid steel, forged, 40c. each.
GARDEN SETS.—3 pieces, 5-T rake, shovel and hoe.....$1.00 per set.

SHOVELS, SPADES, PICKS, ETC.

Plain Back.
Long Handle, Round Point
Trade No. 542

Hollow Back.
Long Handle, Round Point
Trade No. 242

D Handle, Round Point
Trade No. 732

Hollow Back.
Eastern Pattern or Coal Scoop
Trade No. 263

Hollow Back.
D Handle, Square Point
Trade No. 212

D Handle Spade
Trade No. 552

Special—Long Handle, Round Point, No. 2 Shovel.....**$1.25**

PLAIN BACK SHOVELS.

CARBON STEEL.

No. 542 Penn—Long Handle, Round Point Shovels, Size No. 2...Each, **90c.**
No. 512 Penn—D Handle, Square Point Shovels, Size No. 2..... " **90c.**
No. 513 Penn—D Handle, Square Point Shovels, Size No. 3..... " **95c.**
No. 514 Penn—D Handle, Square Point Shovels, Size No. 4..... " **1.00**
No. 532 Penn—D Handle, Round Point Shovels, Size No. 2..... " **90c.**
No. 533 Penn—D Handle, Round Point Shovels, Size No. 3..... " **95c.**
No. 742 Corry—Long Handle, Round Point Shovels, Size No. 2... " **65c.**
No. 722 Corry—Long Handle, Square Point Shovels, Size No. 2.. " **65c.**
No. 732 Corry—D Handle, Round Point Shovels, Size No. 2..... " **65c.**
No. 712 Corry—D Handle, Square Point Shovels, Size No. 2..... " **65c.**
No. 713 Corry—D Handle, Square Point Shovels, Size No. 3..... " **70c.**
No. 714 Corry—D Handle, Square Point Shovels, Size No. 4..... " **75c.**
No. 2—Long Handle, Riveted Back, Round Point Shovels..... " **50c.**

SNOW SHOVELS.

Long Handle, Steel Socket.....**50c.**

Picks, Mattocks and Grub Hoes.

MATTOCK.

PICK.	Retail.	List.
No. 1—5 lb. Best Quality Warranted Steel Mattocks.....	$ .90	.....
No. 1—6 lb. Best Quality Warranted Steel Mattocks.....	1.00	.....
No. 2—5 and 6 lb. Best Refined Iron Mattocks (Steel Cutters)	.70	$17.00
No. 1 and 2—Warranted Steel Grub Hoes.....	.65	.....
No. 1—3½ lbs. Best Refined Iron Grub Hoes (Steel Bit).....	.45	12.00
No. 2—4 lb. Best Refined Iron Grub Hoes (Steel Bit).....	.50	13.00
No. 1—6 to 7 lb. Best Quality Warranted Steel R. R. Picks...	.90	.....
No. 2—6 to 7 lb. Best Refined Iron R. R. Picks (Steel Point)..	.60	13.50

PICK AND MATTOCK HANDLES. Retail.

No. XX—Best Quality, Selected, Second Growth Hickory Pick Handles **25c.**
No. X—Good Quality White Hickory Pick Handles.....**20c.**
No. 1—Good Quality White and Red Hickory Pick Handles.....**18c.**
No. 2—Mixed White and Red Hickory Pick Handles.....**15c.**

HOLLOW BACK SHOVELS.

CARBON STEEL.

No. 142 Corry—Long Handle, Round Point Shovels, Size No. 2...Each, **50c.**
No. 222 Corry—Long Handle, Square Point Shovels, Size No. 2.. " **50c.**
No. 212 Corry—D Handle, Square Point Shovels, Size No. 2..... " **50c.**
No. 213 Corry—D Handle, Square Point Shovels, Size No. 3..... " **55c.**
No. 214 Corry—D Handle, Square Point Shovels, Size No. 4..... " **60c.**
No. 215 Corry—D Handle, Square Point Shovels, Size No. 5..... " **65c.**
No. 216 Corry—D Handle, Square Point Shovels, Size No. 6..... " **70c.**

HOLLOW BACK SCOOPS.

No. 263 Corry—D Handle, Eastern Pattern or Coal Scoop, Size No. 3... **60c.**
No. 264 Corry—D Handle. Eastern Pattern or Coal Scoop, Size No. 4... **65c.**
No. 265 Corry—D Handle, Eastern Pattern or Coal Scoop, Size No. 5 .. **70c.**
No. 266 Corry—D Handle, Eastern Pattern or Coal Scoop, Size No. 6... **75c.**
No. 274 Corry—D Handle, Western Pattern or Grain Scoop, Size No. 4. **75c.**
No. 276 Corry—D Handle, Western Pattern or Grain Scoop, Size No. 6. **85c.**
No. 278 Corry—D Handle, Western Pattern or Grain Scoop, Size No. 8. **95c.**

Long Handle Scoops same price as D Handle.

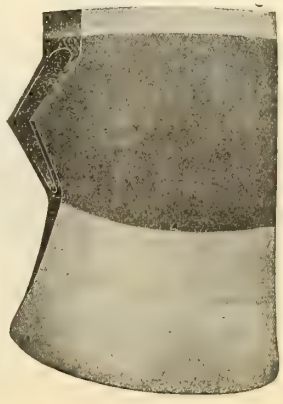
PLAIN BACK SPADES.

No. 552 Penn—D Handle Spades, Size No. 2.....Each, **90c.**
No. 554 Penn—Long Handle Spades, Size No. 2..... " **90c.**
No. 752 Corry—D Handle Spades, Size No. 2..... " **65c.**
No. 754 Corry—Long Handle Spades, Size No. 2..... " **65c.**

HOLLOW BACK SPADES.

No. 252 Corry—D Handle Spades, Size No. 2.....Each, **50c.**
No. 254 Corry—Long Handle Spades, Size No. 2..... " **50c.**

Always order Shovels and Spades by List Number.



AXES.

In Axes we carry the best lines only. We aim to sell only those we know to be first-class in every respect and that have an established reputation. Retail price.

G. & T. Celebrated Axes.....Each, **75c.**
Wm. Mann's Celebrated Red Warrior Axes..... " **75c.**
W. Stewart's Superior Steel Axes..... " **75c.**
Marshall Bros.' Superior Steel Axes..... " **65c.**
Hatchets, Half Pattern and No. 2 Shingling..... Each, **30c.** to **60c.**

AXE HANDLES.

No. X—Extra Selected 2d Growth, all White Hickory Axe Handles, each, **25c.**
No. 1—Selected White Hickory Axe Handles.....each, **20c.**
No. 2—White and Red Hickory Axe Handles.....each, **15c.**
No. 3—White and Red Hickory Axe Handles.....each, **12c.**

KRETSINGER Cut-easy-Hoe

DO YOU SEE THAT EDGE

KRETSINGER CUT-EASY HOE.

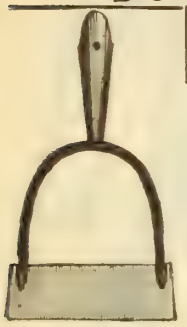
This is the finest Hoe made. Cuts easy, sells easy. Try it.

K. 1—Kretsinger Socket Hoe ..... 55c.
K. 2—Kretsinger Shank Hoe ..... 55c.

The "VICTOR" Garden Cultivator

The Victor Garden Cultivator is popular because it is made of best material. The shanks and blades are extra good stock and are easily adjusted.

No. 90—Complete, on 5-foot handle, with 3x5 blades. Each $1.00



Scuffle Hoes.

4 inches, English..... 50c.
6 inches, English..... 60c.
8 inches, English..... 70c.
10 inches, English..... 80c.

No. X., G. S. Brace or Shank Scuffle Hoe, 8-inch Steel Blade, with Handle..... 50c.

See also Page 54.

GARDEN HOES.

	Each.
No. 1—Solid Steel Garden Socket Hoe, XX Handle	45c.
No. 2—Solid Steel Garden Shank Hoe, XX Handle	40c.
R 1 or No. 20—Riveted Shank, Garden Hoe	25c.
No. 5—Solid Steel Lady's Shank Hoe, XX Handle	30c.
No. 2 P—Two-Point, Solid Steel Weed Hoe	30c.
No. 1 P—Sharp Point, Steel Blade Weed Hoe	25c.
No. 3—Three-Point, Steel Weed Hoe and Rake	40c.
No. 4—Four-Point, Steel Weed Hoe and Rake	50c.

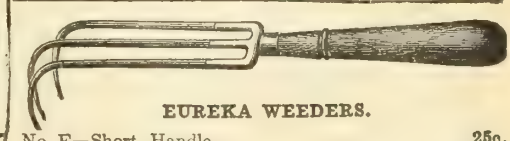
No. D 7—Dixie Tobacco Hoe, 7 in. Blade ..... 50c.

COTTON HOES.

No. 127—7 in. Handled Cotton Hoe ..... 40c.
No. 127½—7- in. Handled Cotton Hoe ..... 45c.
No. 128—8 in. Handled Cotton Hoe ..... 50c.

PLANTER HOES.

No. 107—Heavy Handled Planter Shank Hoe, 7 in. blade.... 50c.
No. 107½—Heavy Handled Planter Shank Hoe, 7½ in. blade 50c.
No. 108—Heavy Handled Planter Shank Hoe, 8 in. blade.... 60c.



EUREKA WEEDERS.

No. E—Short Handle..... 25c.
No. E L—Long Handle..... 35c.

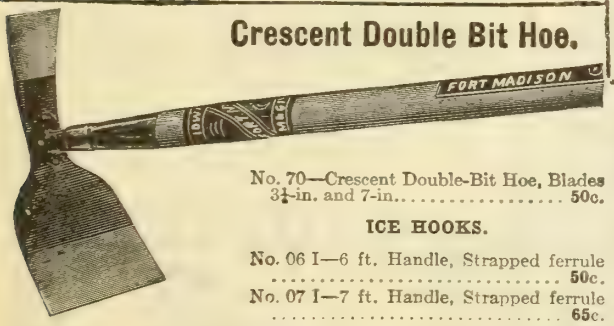
See also Page 54.

Heavy Handled Mattock Hoe.

No. 75—Heavy Handled Mattock Hoe, special temper...60c.

Corn Stalk Cutter Hoe.

6-in. Corn Stalk Cutter Hoes, Heavy, Solid Steel Shank, 30-in. Handles..... 40c.



Crescent Double Bit Hoe.

No. 70—Crescent Double-Bit Hoe, Blades 3½-in. and 7-in..... 50c.

ICE HOOKS.

No. 06 I—6 ft. Handle, Strapped ferrule ..... 50c.
No. 07 I—7 ft. Handle, Strapped ferrule ..... 65c.
No. 08 I—8 ft. Handle, Strapped ferrule..... 75c.

Sprouting Hoes.

No. 64½—Heavy Handled Sprouting Hoe, 4½-in. blade, special temper..... 60c.

Gibbs' Post Hole Digger.

Digs faster, works easier than any other on the market. All wearing parts have steel pins. Makes a hole of any desired diameter. First-class for tree planting.

Price $1.75

STEEL SOLID HANDLE POST SPADE.

Flattened at one end like a spade. The other end is sharpened and can be used as a crowbar. Light, durable, effective, cheap. Price, $2.00.

SIDE WALK CLEANERS.

No. X S—8-in. Steel Blade... 50c.

MANURE FORK HANDLES.

	List price Per doz.	Retail price Each.
No. X—4½ ft..	$2.10	$ .15

HAY FORK HANDLES.

No. X—5½ ft..	1.95	.15
No. X—6 ft..	2.25	.20
No. X—7 ft..	3.15	.25
No. X—8 ft..	4.50	.30

RAKE HANDLES.

	List Price.	Ret'l Price.
No. X—5 ft...	1.50	.15

FIELD HOE HANDLES.

No. X—.....	1.30	.15

SHOVEL HANDLES.

No. X—L. H., 4½ ft.....	3.00	.20
No. X—D. H., 4½ ft.....	3.50	.25
No. X—D. H., Spade Hdls.	3.35	.25

Tilley Adjustable Patented Scaffolding Jacks.

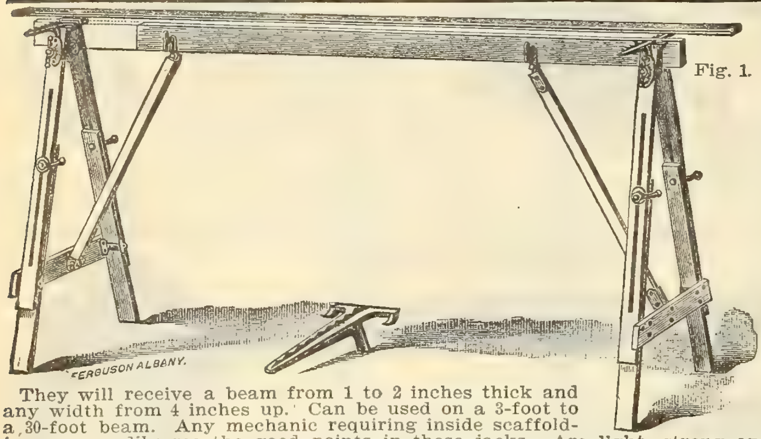


Fig. 1.

They will receive a beam from 1 to 2 inches thick and any width from 4 inches up. Can be used on a 3-foot to a 30-foot beam. Any mechanic requiring inside scaffolding can readily see the good points in these jacks. Are light, strong and suitable for plasterers, carpenters, painters and paper-hangers, the putting up of metal ceilings, shaftings, pulleys, etc. Nos. 8 and 13 have an extra end brace on slotted legs, with iron brace at each end of same. Nos 9, 10, 14, 15 and 16 have extra end braces, same as 8 and 13; also have an extra grip on friction bolt in each traveling leg, making the jacks much stronger than formerly. This improvement consists of suspension brackets, which permits of making a scaffold at any elevation lower than the height of the jack when down to its limit. These brackets can be used with jacks already sold. They cost but **60** cents. With them and the proper size jack the scaffold can be made to fit a store or basement. The iron brackets or arms, as illustrated in Fig. 1, are used when platform is wanted on one horse. These brackets are hooked into malleable castings at top of leg and will support a platform two feet wide the whole length of horse. This furnishes a convenient arrangement for moving about, working side walls, or to use in narrow hallways. Price, per set of four............................**85** cents net.

Fig. 2 shows two jacks represented in Fig. 1 as "knocked down." It is unnecessary to comment upon its compact form.

Fig. 2.

3¾x1¼ Slotted Leg. 3⅛x1⅛ Traveling Leg.

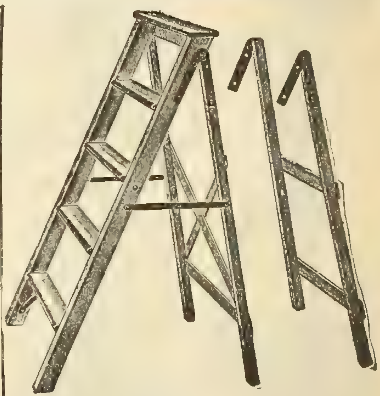
No.		Per Jack.
5.	Stands 3 ft. high, will extend to 5 ft.	**$2.50**
6.	" 4 " " 6 ft.	**2.50**
7.	" 5 " " 8 ft.	**2.80**
8.	" 6 " " 9 ft.	**3.20**
9.	" 7 " " 11 ft.	**3.55**
10.	" 8 " " 12 ft. 6 in.	**3.80**

EXTRA HEAVY FOR PLASTERERS AND MILL WORK.

4x1¾ Slotted Leg. 3⅞x1⅝ Traveling Leg.

No.		Per Jack.
11.	Stands 4 ft. high, will extend to 6 ft.	**$2.90**
12.	" 5 " " 8 ft.	**3.20**
13.	" 6 " " 9 ft.	**3.60**
14.	" 7 " " 11 ft.	**4.00**
15.	" 8 " " 12 ft. 6 in.	**4.30**
16.	" 10 " " 15 ft.	**6.00**

Our Improved Tilley Step and Extension Ladders.



EUREKA.

Well adapted to any use to which step-ladders are put. It has a special style of hinge, connecting front and back, bolted on, rodded, and well braced with iron. Some prefer the open back detached, as it admits of using a plank to make a platform more readily.

Prices of Step Ladders, With Pail Rest.

5 ft.	**$2.25**
6 ft.	**2.50**
8 ft.	**3.00**
10 ft.	**3.50**
12 ft.	**4.50**
14 ft.	**7.00**
16 ft.	**8.00**
18 ft.	**9.00**

Our Improved Tilley Extension Ladders.

These ladders are stiff, strong and well built. Have improved patent spring locks attached to traveling section, and are automatic in action. These locks are fastened securely to the inner sides of upper section, and made of the best malleable iron. They are also provided with a durable spring, which keeps the hook thrown forward and grasps each round of the stationary ladder as the traveling ladder passes upward. A tripper forces the hook back, allowing it to pass the rounds when descending.

PRICES.

24 ft., 2-12 ft. section, extends 21 ft.	**$6.00**
26 " 2-13 " " 23 "	**6.50**
28 " 2-14 " " 25 "	**7.00**
32 " 2-16 " " 29 "	**8.00**
36 " 2-18 " " 33 "	**9.00**
40 " 2-20 " " 36 "	**12.00**

Other Lengths Given On Application.

Tilley Improved Sectional Ladders.

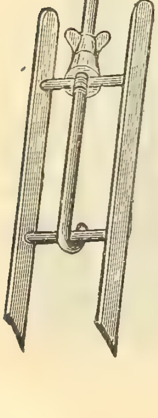
Sections, 6 feet 5 inches long. Either plate and pin lock or lock nut fastening.

Per section...............................**$1.50**

Also furnish single ladders made of spruce, with hand-shaved oak rounds; first class in every particular.

PRICE.

12, 14, 16, 18 feet....................**15**c. per foot.
Ladders over 18 feet..........**2**c. per foot extra.



Tilley Ladder Hook.

This old reliable and well-known Ladder Hook needs very little explanation. The cut explains all its merits and utility for a roof ladder. It can be quickly attached or detached.

PRICE..........50c. Each.

DECORATOR STEP LADDERS.

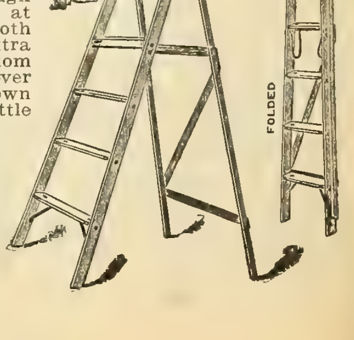
This is without doubt the strongest step ladder of its weight on the market. There is an iron knee and brace under the ends of each step, which passes down through the step and out through the side piece and is riveted at each end, thereby forming both tie and brace; also has extra iron braces under the bottom step. The back legs fold over the sides or front part, as shown in cuts, occupying but little space.

Particularly adapted for paper hanging, decorating, or when a light, strong step ladder is required.

Sizes, 4 to 12 feet.

PRICE.

Per foot.....................**25**c.



THE GRIFFITH & TURNER

Improved, Combined Step and Extension Ladder.

THE MATERIAL USED.

Norway pine for sides; rock elm, or hickory for rungs; the very best grade of malleable iron castings for metal parts.

Can be almost instantly changed to any height up to nearly twice its closed length, the rungs always being exactly opposite each other in the lapped portion, no matter what the amount of extension; or by swinging the bottoms apart, a reliable and convenient step ladder is obtained. They can also be extended or closed, and for any use that a step ladder can be used are very desirable. All ladders over 24 feet in length are made in two long sections, with flared bottom, adding to the rigidity and reducing the slipping at bottom to a minimum. This ladder will come apart and each section can be used separately. This style can, of course, be extended or closed, but does not swing apart, forming a step ladder, as does the other style.

OPEN

EXTENDED

We use Norway pine for sides; rock elm, or second growth white hickory for rungs; the very best grade of malleable iron castings for metal parts.

In ordering, bear in mind that a certain amount has to be allowed for the "lap" when the ladder is in its most extended form, the amount of necessity increasing as the ladders increase in length, in order to obtain perfect safety and firmness. In lengths of 12 to 18 feet deduct one foot for lap—that is, a 12-foot ladder would be 6 feet high when closed or would form a 6-foot step ladder, but would be only 11 feet long when extended. In lengths of 20 to 32 feet deduct two feet, and from 34 to 40 deduct three feet from the total length in same manner.

PRICE LIST.

12-ft. extension ladder makes 6-ft. step ladder	$2.16
14 " " " " 7 " " " "	2.52
16 " " " " 8 " " " "	2.88
18 " " " " 9 " " " "	3.24
20 " " " " 10 " " " "	3.60
22 " " " " 11 " " " "	3.96
24 " " " " 12 " " " "	4.32
26-ft. extension ladder, in two sections of 12 and 14 ft. each	5.20
28-ft. extension ladder, in two sections of 12 and 16 ft. each	5.60
30-ft. extension ladder, in two sections of 14 and 16 ft. each	6.00
32-ft. extension ladder, in two sections of 14 and 18 ft. each	6.40
34-ft. extension ladder, in two sections of 16 and 18 ft. each	6.80
36-ft. extension ladder, in two sections of 16 and 20 ft. each	7.20
38-ft. extension ladder, in two sections of 18 and 20 ft. each	7.60
40-ft. extension ladder, in two sections of 18 and 22 ft. each	8.00

Bent Rung, Step, Extension and Single Ladders.

A 16-foot Single Ladder weighs only 21 to 25 pounds. By drawing out a small rod at top of step ladder it can be converted into two separate ladders. These goods are made nearly altogether by hand, and are very much superior to factory ladders. No holes are bored in the side pieces, thus making them the strongest and lightest ladders made. The rungs are made of toughest hickory. A slight groove in the side pieces, in which the rungs are set, acts as a brace and aids to stiffen the ladder.

CLOSED

SINGLE LADDERS.

Less 30 per cent. from the following prices:

8 feet	$2.00	12 feet	$3.10	16 feet	$4.30
10 feet	2.50	14 feet	3.70	18 feet	4.90
20 feet					5.60

COLUMBIA BENT-RUNG DOUBLE STEP LADDERS.

Less 40 per cent. from the following prices:

4 feet	$3.00	6 feet	$4.00	9 feet	$5.50
5 feet	3.50	7 feet	4.50	10 feet	6.00
		8 feet	5.00	12 feet	9.00

BENT-RUNG SINGLE STEP LADDERS.

Same lengths and prices as above. Less 60 per cent.

EXTENSION LADDERS.

Less 35 per cent. from the following prices:

Two Ladders. Each.	Extended.	Price.	Two Ladders. Each.	Extended.	Price.
10 feet	17 feet	$7.40	16 feet	29 feet	$12.20
12 "	21 "	8.90	18 "	33 "	14.40
14 "	25 "	10.40	19 "	35 "	15.20
15 "	27 "	11.20	20 "	37 "	16.00

Wettling Step Ladder.

GOOD QUALITY.

All lengths from 4 to 10 feet at 15c. per ft.

SPECIAL PRICES IN QUANTITIES.

Hasting's Step Ladder.

WITH UPRIGHT SUPPORT UNDER EACH STEP.

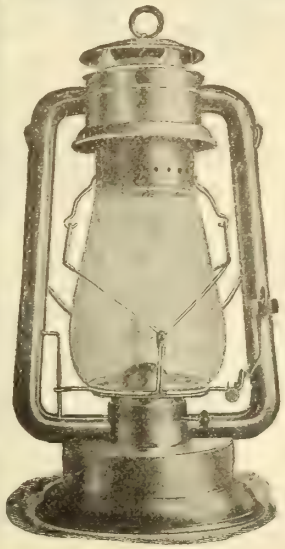
Stiff, Strong and Durable.

All lengths from 6 to 10 feet, 18c. per ft.

First Class in Every Particular

Special Prices to Paper Hangers, Painters and the Trade Generally on all Ladders.

Berger's Cold Blast LANTERNS.



Has No. 2 Burner. 1 inch Wick. Cold Blast Globe.

List Price $16.00 per dozen.

A veritable stream of clear, white, smokeless light, resulting from perfect combustion, which light the fiercest gales cannot blow or "fiercest" roads jolt out. 85c.

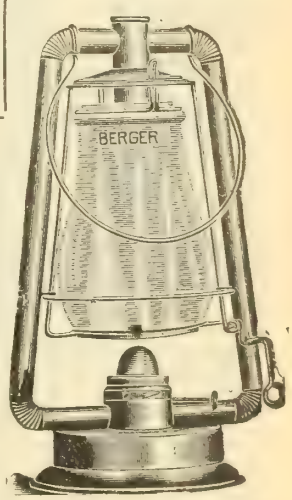
Berger's Side and Bail Lift No. 0 Tubular Lanterns.

No. 1 Burner, ¼-inch Wick, No. 0 Globe, Lock Burner, Simplicity Side Lift, Retinned and Tested Founts. Especially designed for severe usage and is used principally in mills, barns, warehouses, lumber yards, freight houses, etc.

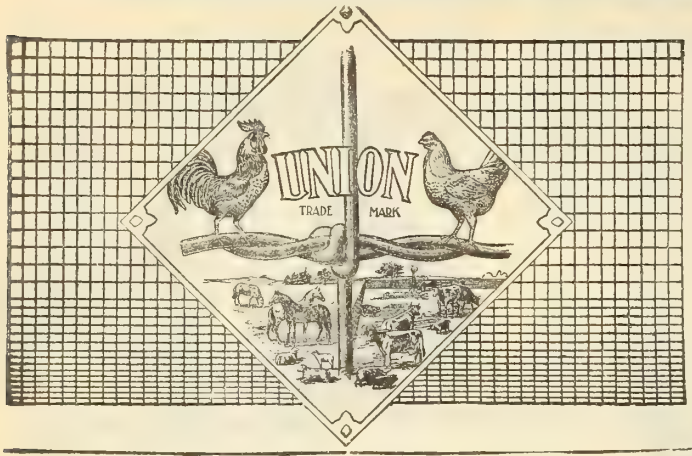
Price..... 50c.

DASHBOARD.—Furnished in Bull's Eye Globes; No. 1 Burner; ¼-inch Wick; No. 0 Globe; Lock Burner; Improved Catch. Finished in plain or blued tin. Patented one piece crimped tubes.

Price..... 75c.



Patented One-piece Crimped Tubes.



UNION LOCK POULTRY FENCE

The horizontal lines of this fence are all composed of two No. 20 galvanized steel wire twisted together.

Beginning at the bottom the first 7 cables are 1¼ inches apart, the next three cables are 1½ inches apart, then 6 cables 2 inches apart, and all above that 4 inches apart. This gives a mesh of 1¼ x 3 inches at the bottom, where it is needed for small chicks, and above 2 feet, where fowls can only reach when on the wing, the mesh is 3x4 inches.

The pickets are No. 19 galvanized steel wire and are 3 inches apart.

On account of the pickets being at right angles to the cables, this fence will fit any unevenness of the ground without cutting.

Because of its strength and construction this fence requires no top or bottom rail and no more posts than the ordinary woven wire stock fence, or about one-half the number needed for poultry netting.

In strength, closeness of mesh, adjustability and economy, it is unexcelled.

			List, Per roll.	Retail, Per roll.		Retail.
10 rod rolls,	165 ft.	24 in. wide,	$5.60	$2.80	When cut,	2½c. per run'g ft.
10 "	165 ft.	36 "	6.90	3.45	"	2½c. "
10 "	165 ft.	48 "	8.30	4.15	"	3½c. "
10 "	165 ft.	60 "	9.60	4.80	"	4c "
10 "	165 ft.	72 "	10.80	5.40	"	4½c. "
10 "	165 ft.	84 "	12.30	6.15	"	5½c. "

In comparing prices with ordinary poultry netting remember these bales are 15 feet longer.

DIAMOND MESH POULTRY NETTING.

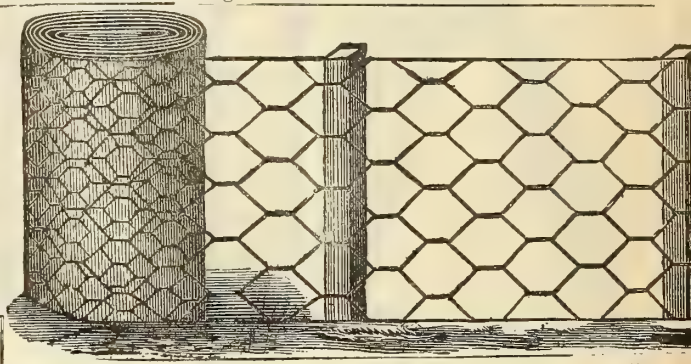
The wire we offer is all Nos. 19 and 20 double-twist, 2-inch mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.

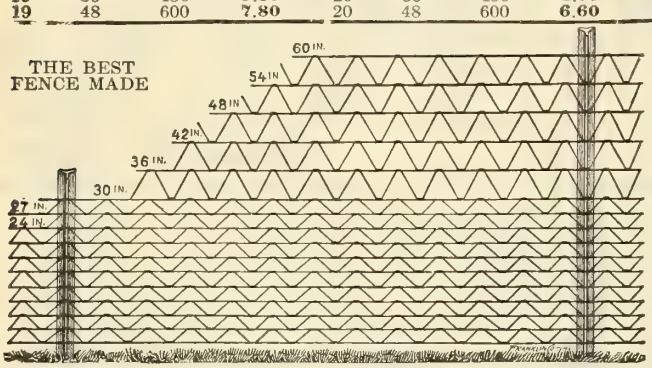
No.	In. Wide.	Sq. Ft.	Per Bale.	No.	In. Wide.	Sq. Ft.	Per Bale.
19	12	150	$ .75	20	12	150	$ .68
19	18	225	1.12	20	18	225	1.05
19	24	300	1.50	20	24	300	1.35
19	36	450	2.25	20	36	450	2.02
19	48	600	3.00	20	48	600	2.70
19	60	750	3.75	20	60	750	3.37
19	72	900	4.50	20	72	900	4.05

Price, 1c. per sq. ft. in less than bale lots. Staples for fastening, 10c. per pound.

We also carry in stock a few sizes of one inch mesh as follows:

No.	In. Wide.	Sq. Ft.	Per Bale.	No.	In. Wide.	Sq. Ft.	Per Bale.
19	24	300	$3.90	20	24	300	$3.30
19	36	450	5.85	20	36	450	4.95
19	48	600	7.80	20	48	600	6.60





HARTMAN "STOCKADE" WOVEN WIRE FENCE.

Strong, Durable, Cheap, Ornamental. Convenient, because easy to handle. Quickly put up. The "Y" steel posts are used in the erection of this fence.

This fence made in various heights for hogs, sheep, cattle and horses, is composed of horizontal strands of gauge 13 galvanized steel wire (except top and bottom wires, which are of gauge 10), braced by intersecting strands of gauge 13 wire.

It is made with horizontal wires 3 inches apart, below 24 inches; above that distance, 6 inches apart.

Ample provision is made for expansion and contraction.

For use on the farm, ranch, pasture, plantation corral, and for general field use it is usually erected on posts of wood, placed from 10 to 16 feet apart, with braced terminal corner and gate posts. We are able to supply our steel posts and braces at a first cost but little advanced over wood, which is more than met by their durability.

The cut shows the different heights of "Stockade" Fence. It is put up in standard rolls, 20 rods each, or in special lengths when ordered.

NOTE.—In the 60-inch height only the horizontal wires are 3 inches apart up to 30 inches, while in all other heights up to 24 inches.

PRICE WITHOUT STEEL POSTS.

	List.	Retail.		List.	Retail.
3 ft. high, per rod....	$1.00	$ .50	3½ ft. high, per rod....	$1.12	$ .55

4 ft. high, per rod, retail, 60c., list, $1.22. 5 ft. high, per rod, retail, 70c., list, $1.46. Steel Posts, length, 6 ft., each, $1.00.

WRITE FOR SPECIAL PRICES.

BALING TIES.

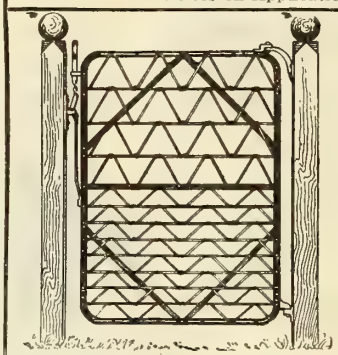
The cost of Bale Ties is from 40 to 60 cents per ton of hay. To get the length of the tie required, add 3 inches to the measure around the bale when under pressure. We keep in stock only the standard size, No. 15, 8½ ft. long, but can furnish any of the other sizes and lengths on order at lowest prices. Retail price on application.

ANNEALED BALING WIRE.—Nos. 11, 12, 13, 14 and 16 always on hand at lowest market prices on application.

TRUSS AND CABLE FENCE WIRE.

Barbed Wire, Plain Ribbon Wire, Plain Twisted Two-Stranded Wire. Plain Galvanized Wire, Plain Annealed Wire, Panel Wire.

Prices on Application.



SINGLE WALK GATES.

Enameled Black.

48 inches high by 3½ feet wide, list price, $4.30; retail price, $3.44

60 inches high by 3½ feet wide, list price, $4.65; retail price, $3.72

Above prices of Gates include the hinges, latch and screws.

DOUBLE DRIVE GATES.

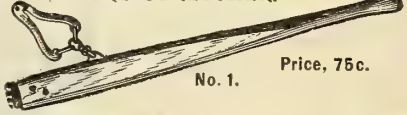
Enameled Black.

9 feet wide by 48 inches high, each, list, $9.50; retail, $7.60.

9 feet wide, by 60 inches high, each, list, $9.50; retail, $7.60.

Above prices include hinges, latch, plate and screws.

WIRE STRETCHER.



No. 1. Price, 75c.

NEVER SLIP STRETCHER.

Has no teeth to cut or injure the wire. If you cut or injure the galvanizing on a wire it lets it rust. The NEVER SLIP STRETCHER has an iron jaw, but no teeth. When it gets a hold it never lets go. 75c.

For Other Single and Double Gates See Page 158.

STEEL FRAME GRINDSTONE.

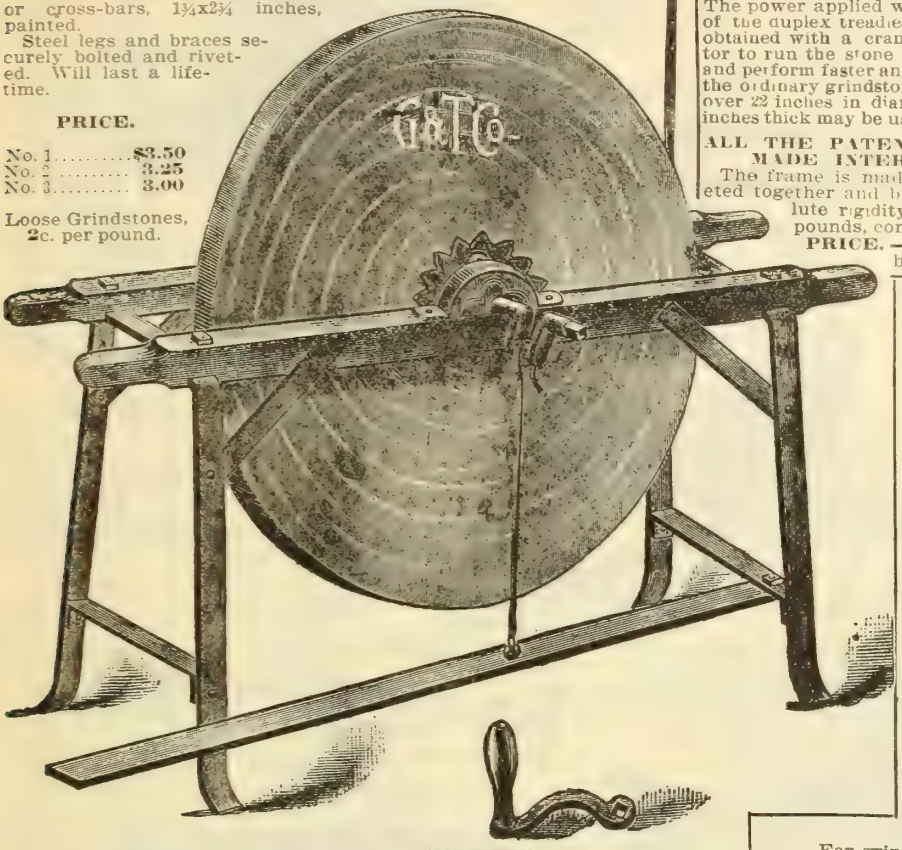
Frame consists of hardwood sills or cross-bars, 1¾x2¾ inches, painted.

Steel legs and braces securely bolted and riveted. Will last a lifetime.

PRICE.

No. 1.....$3.50
No. 2.....3.25
No. 3.....3.00

Loose Grindstones, 2c. per pound.



Steel Frame Bi-treadle Grindstone

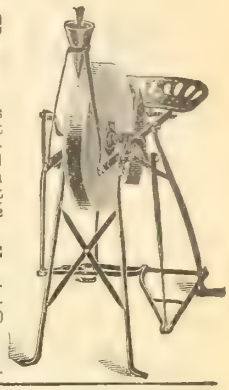
MOUNTED WITH SPECIALLY SELECTED STONE. SELF-WATERING ATTACHMENT.

The power applied with the legs by means of the duplex treadles is nearly double that obtained with a crank, enabling the operator to run the stone at much greater speed and perform faster and better work than with the ordinary grindstone. A bushed stone not over 22 inches in diameter or more than 2½ inches thick may be used with this frame.

ALL THE PATENT FIXTURES ARE MADE INTERCHANGEABLE.

The frame is made of steel, firmly riveted together and braced, to secure absolute rigidity. Weight, about 80 pounds, complete.

PRICE. — With U-shaped bearings....**$4.50** each.



EMERY TOOL GRINDER.

For grinding any kind of tool. The cut represents

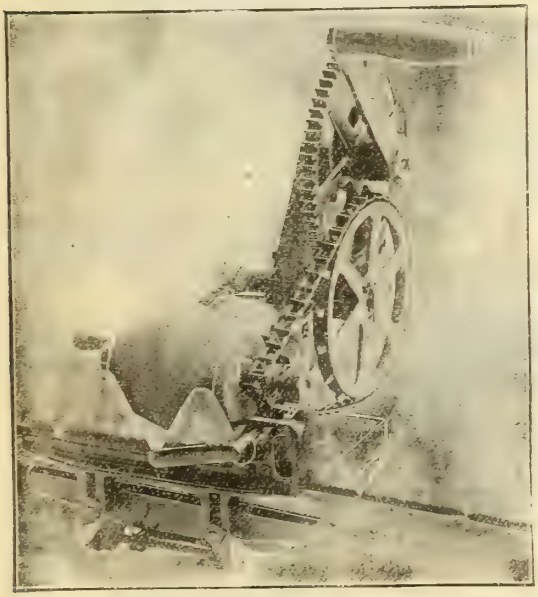
THE HOUSEKEEPER'S FRIEND.

Will give a keen edge to all kinds of household cutlery. Any lady can use it.

THE FARMER'S FRIEND.

Sharpens quickly and perfectly all tools from an axe to a pocket knife.....**$2.00**

SICKLE GRINDER.

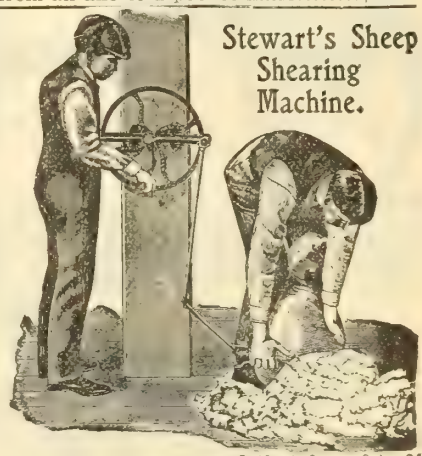


The improvement in this machine embodies a device that automatically drives the emery back and forth (horizontally) over the sickle (or by the simple lifting of the oscillator, it may be controlled by hand and at the will of the operator), while a finely tempered steel spring gives just the proper pressure. Ingenious and almost frictionless tapered adjusting nuts are employed for lifting the emery stone from the heel and point of the sickle at any place desired. Every emery stone is guaranteed against being too soft or crumbly. The clamps for holding sickle are the simplest and most effective ever placed on an article of this kind. The advantages of the above features will at once be apparent to the experienced. For simplicity of operation, for workmanship, strength and durability the Automatic Sickle and Tool Grinding Machines are preeminently in the lead and winners of trade wherever used.

Price.....**$3.00**

We have several other styles of Sickle Grinders that we do not carry in stock generally which we will sell from $2.00 up, subject to being unsold on receipt of order.

Stewart's Sheep Shearing Machine.



Experience has proved that from 8 to 24 ounces more wool can be obtained from each sheep by the shear machine. As this extra wool is taken next to the hide, it is the most valuable part of the fleece. Machine is strong and simple; a boy can turn for two shearers without fatigue. Wool being free from second or double cuts is increased in value, and there is a saving in sheep from hand-shear stabs, all of which practical men admit.

Extra wool obtained the first season more than pays for machine and all accessories. Weight, net 38 pounds; boxed, 65 pounds.

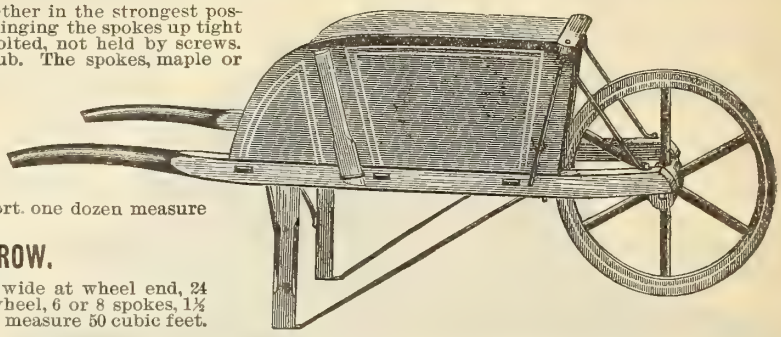
Price, complete, with 4 combs and 4 cutters.....**$12.75**
Extra bottom and extra top plates, each..... **.50**

20th CENTURY HORSE CLIPPERS.

It is needless to tell a horse man the necessity for clipping horses. All of it is now acknowledged, but we will say the **STEWART 20th CENTURY CLIPPER** is one of the best on the market today. It is suspended from ceiling by a rope, permitting all parts of the horse to be reached with facility. Weight, boxed, 19 pounds. Price, complete.....**$5.00**

Baltimore Garden Barrow.

THE wheels are of wood, with wood hub, and put together in the strongest possible manner. The tire is set by steam pressure, bringing the spokes up tight in every joint. Iron leg braces are thoroughly bolted, not held by screws. The wheels have iron bands shrunk on end of hub. The spokes, maple or beech, shaped, not turned.



No. 4, MEDIUM SIZE or MAN'S BARROW.

Inside measurement of box, 26½ inches long, 18½ inches at wheel end, 23 inches wide at handle end, 12 inches deep. Has 20 inch wheel, 6 or 8 spokes, 1½ inch tread, ⅝ inch gudgeon. Painted green or blue. Bottoms matched and glued. Nicely painted and striped. Packed for export, one dozen measure 45 cubic feet. Price, **$4.00.**

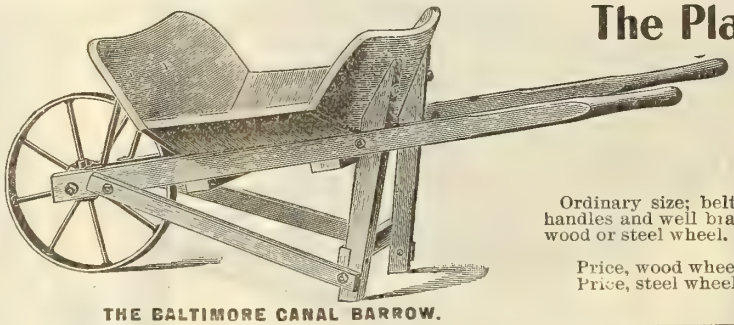
No. 5, LARGE SIZE or MAN'S BARROW.

Inside measurement of box, 28 inches long, 20 inches wide at wheel end, 24 inches wide at handle end, 12 inches deep. Has 22 inch wheel, 6 or 8 spokes, 1½ inch tread, ½ inch gudgeon. Finished as above. Packed, measure 50 cubic feet. Price, **$4.50.**

The Baltimore Canal Barrows.

Full sized tray, edges shared, bolted to legs, and well bolted and braced in front. Handles and legs of selected hardwood; wheels painted. Furnished in both wood and steel wheel.

Price, wood wheel..... **$2.50**
Price, steel wheel..... **2.75**



THE BALTIMORE CANAL BARROW.

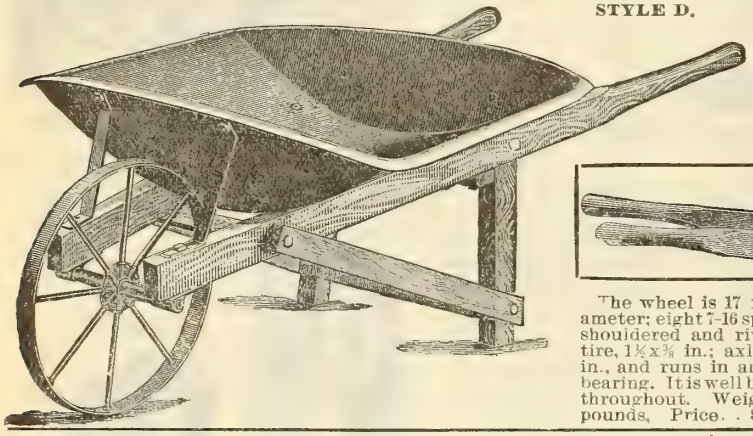
The Plain Bolted Canal Barrows.

Ordinary size; belt tray; legs bolted to handles and well braced. Furnished with wood or steel wheel.

Price, wood wheel..... **$2.00**
Price, steel wheel..... **2.25**

WOOD FRAME Solid Pressed STEEL TRAY BARROW

STYLE D.

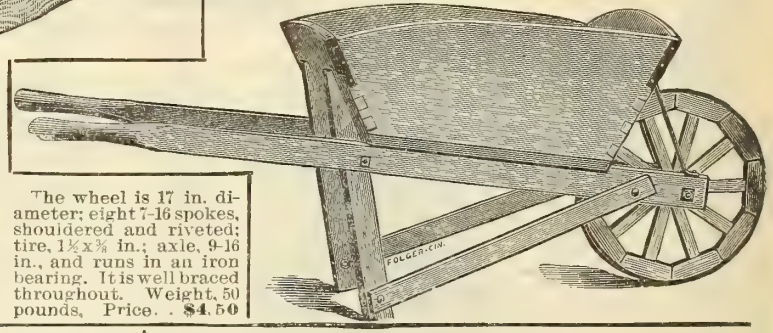


The wheel is 17 in. diameter; eight 7-16 spokes, shouldered and riveted; tire, 1½x⅜ in.; axle, 9-16 in., and runs in an iron bearing. It is well braced throughout. Weight, 50 pounds. Price. . **$4.50**

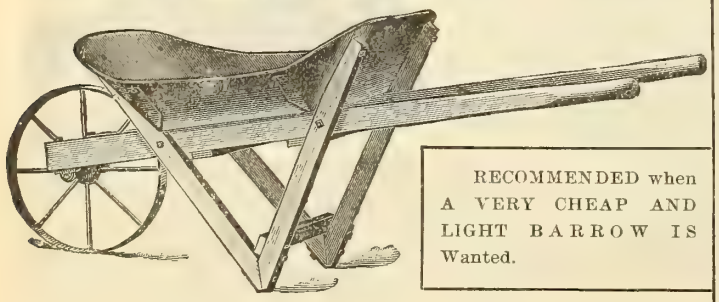
Coal and Mortar Barrow.

Top is iron banded, strongly braced and bolted; has large capacity.

Price, wood wheel..... **$3.50**
Price, steel wheel..... **3.75**



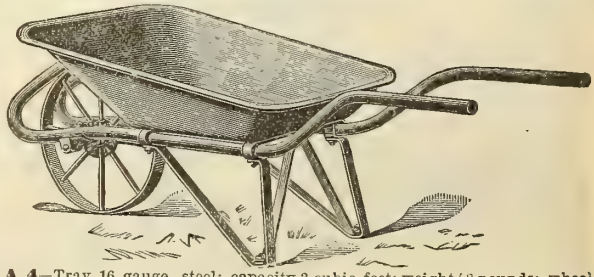
THE SOUTHERN STEEL TRAY.



RECOMMENDED when A VERY CHEAP AND LIGHT BARROW IS Wanted.

Price..... $3.25

Tubular Frame Solid Pressed Steel Tray Barrow



A 4—Tray 16 gauge, steel; capacity 3 cubic feet; weight 58 pounds; wheel, 17 in. diameter; tire, 1½x¾ in., eight ½ in. spokes, shouldered and riveted; axle, ⅝ in. For moving earth, ashes and light work. Price..... **$5.50**

B 5—Tray, 14 gauge, steel; capacity, 5 cubic feet; weight, 75 pounds; mounted on same frame and wheel as A 4. For general purposes and light running. It will stand hard usage. Price..... **$6.00**

Special Discount for Cash.

BALTIMORE STORE TRUCK.

BALTIMORE STORE TRUCK

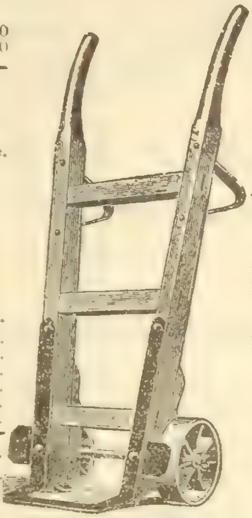
List Price $4.00
Retail Price 2.00

NEW YORK PATTERN.

HALF STRAPPED. List price.	Retail price.	FULL STRAPPED. List price.	Retail price.
No. 0 . $4.40	$2.65	No. 0 . . $5.15	$3.10
No. 1 . . 4.60	2.75	No. 1 . . 5.35	3.25
No. 2 . . 6.10	3.70	No. 2 . . 7.10	4.25
No. 3 . . 8.00	4.80	No. 3 . . 9.00	5.40
No. 4 . . 10.00	6.00	No. 4 . . 11.00	6.60
No. 5 . . 11.50	6.90	No. 5 . . 13.50	8.10

NEW YORK PATTERN.—SIZES.

	Length Handles.	Width Nose.	Width at Upper bar.	Diameter Wheels.	Weight.
No. 1	4′ 0″	12½″	18 ″	8 ″	42 lbs.
No. 2	4′ 5″	14 ″	19½″	9½″	44 lbs.
No. 3	4′ 8″	15 ″	21 ″	9½″	72 lbs.
No. 4	5′ 0″	16 ″	22½″	11 ″	85 lbs.
No. 5	5′ 3″	17 ″	24 ″	11 ″	90 lbs.
No. 6	5′ 9″	20 ″	23½″	12 ″	125 lbs.



NEW YORK PATTERN.

COTTON TRUCKS.

	List.	Retail.
No. 3	$ 9.00	$5.40
No. 4	11.00	6.60
No. 5	13.50	8.10

No.	Length of Handles.	Width of Nose.	Width at Upper bar.	Diam. of Wheels.	Weight in Pounds.
3	4′ 10″	15½″	21 ″	9½″	74
4	5′ 0″	16 ″	23 ″	11 ″	104
5	5′ 3″	18 ″	22 ″	10 ″	95
6	5′ 9″	20 ″	23½″	12 ″	125

NEW YORK BARREL TRUCKS.

	List.	Retail.		List.	Retail.
No. 1	$7.00	$4.25	No. 4	12.50	7.50
No. 2	9.00	5.40	No. 5	15.00	9.00
No. 3	$10.50	$6.30			

No.	Length of Handles.	Width of Nose.	Width at Upper bar.	Diam. of Wheels.	Weight in Pounds.
1	4′ 0″	12″	17½″	7 ″	42
2	4′ 6″	14″	18½″	8 ″	53
3	4′ 7″	15″	20½″	9 ″	76
4	5′ 0″	16″	21 ″	9½″	95
5	5′ 3″	18″	22 ″	10 ″	125

Dimensions and Prices Cast-Iron Truck Wheels.

	Pounds, Weight.	Height, In.	Face, In.	Hub, In.	Bore, In.	List	Retail price. Each.
No. 0	4½	6½	1½	2¼	¾x⅞	$ .54	$ .30
No. 1 and 2	7¼	8	2	2⅞	¾x⅞	.87	.55
No. 3	12¾	9½	2½	3¼	⅞x1	1.52	.90
No. 4 and 5	17½	11	3	3¾	1x1⅛	2.10	1.23
Heavy	25	12	3	3¾	1x1⅛	3.00	1.75

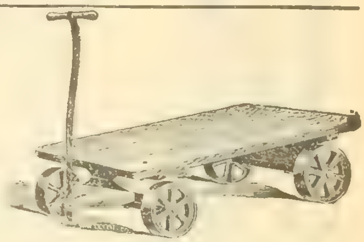
Improved Four-Wheel Platform Truck.

For Canning House, Railroad Stations and Warehouse. Cheap, strong and well made.

	Size, Platform.	Diam. Wheels.	Diam. Castor.	Weight.	List.	Retail.
No. 1	2x4 ft.	12 in.	6 in.	120 lbs.	$25.00	$15.00
No. 21	3x5 ft.	18 in.	9 in.	200 lbs.	35.25	21.15

PLAIN PLATFORM TRUCK.

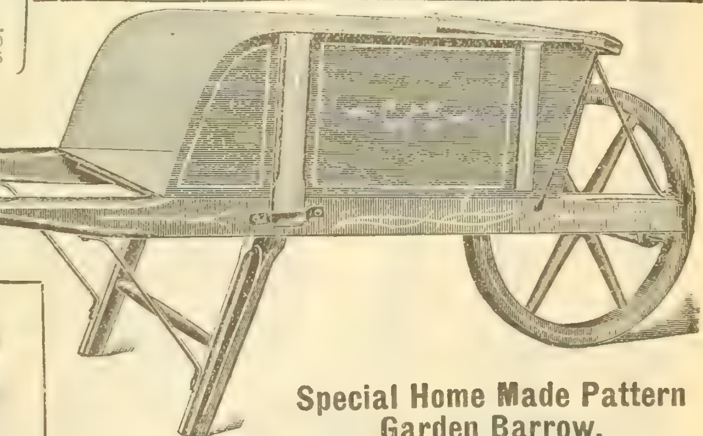
We are prepared to quote special prices on Trucks of every description. If you want anything special write us for prices.



	Size of Platform.	Weight.	Diam. Wheels.	List.	Retail.
No. 82 . .	2 ft. 4 in. by 3 ft. 4 in.	100 lbs.	7½ in.	$14.00	$ 8.40
No. 83 . .	2 ft. 6 in. by 3 ft. 6 in.	115 lbs.	7½ in.	15.00	9.00
No. 84 . .	3 ft. by 4 ft.	125 lbs.	8½ in.	17.00	10.25

Can furnish Special Trucks at lowest prices; also Truck Wheels. Write for prices.

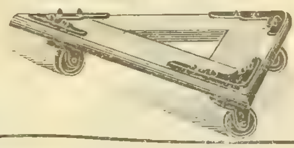
No. 1.—This Wheelbarrow is built of the best seasoned material. Frame built of hard wood. It is strong and roomy and is adapted for the use of farmers. Painted red; size of bin, 30 inches long, 24 inches wide in front, 25 inches in back. Side boards 12 inches high, 30 inches long. Handles 5½ feet long, 2¾ x 1¾ inches. Wheel 21 inches diameter, 6 spokes; hub 3 inches diameter in center, 2 inches diameter at ends.
No. 1 Barrow, with 1½ inch Tread . . . . Each, **$5.00**
Weight, 60 pounds. Six crated in one package, 56¼ cubic feet.

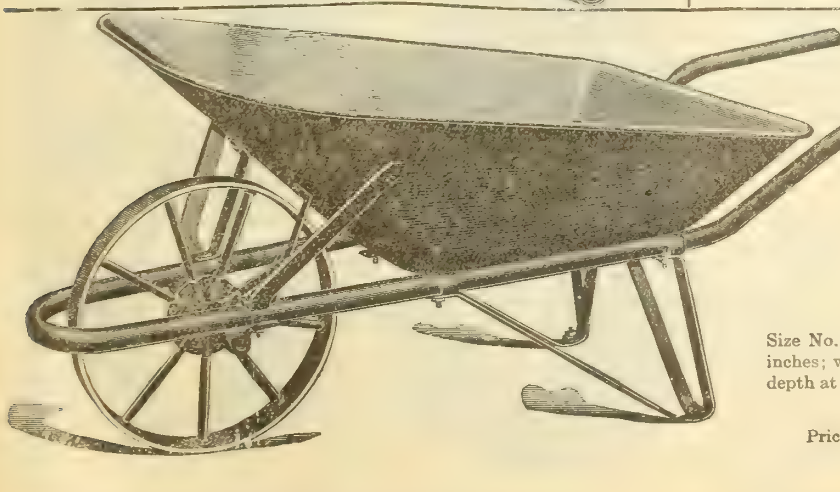


Special Home Made Pattern Garden Barrow.

TRIANGULAR BOX TRUCK.

Strongly made; used for moving barrels, cases, tubs, etc. Runs extremely easy owing to mounting, which consists of three anti-friction castors. Turns easily under heavy load. Length of sides, 20 inches.
Price . . . . Each, **$2.00**





Solid Pressed Steel Tray Coal and Coke Barrow No. 10.

One-piece tubular steel frame extending around in front of wheel. Frame strongly braced and well ironed. Tray of best quality steel, with wired edge.

Size No. 10—Gauge of steel in tray, 13; length of top of tray, 41½ inches; width of top of tray, 33 inches; depth at wheel, 12 inches; depth at handle, 6 inches; capacity, 6 cubic feet; weight, 110 lbs.

Price $9.50

FIG. 7 REGULAR IRON TRACES

STABLE REQUISITES

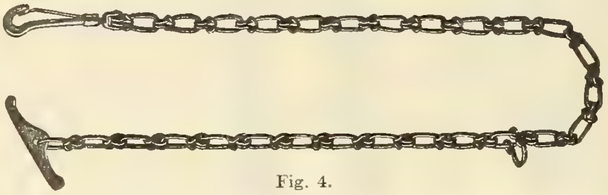


Fig. 4.

Figs. 2 and 4.—Triumph Chains; very light; possess great strength; all links have equal strength. Do not kink; no welds to give way; no sharp edges.

No. 3-0—Triumph Cow Tie (Ohio pattern)	Each,	$ .30
No. 4-0—Triumph Cow Tie (Ohio pattern)	Each,	.35
No. 3-0—4½ ft. Triumph Halter Chain	Each,	.30
No. 3-0—6 ft. Triumph Halter Chain	Each,	.35
No. 5-0—7 ft. Triumph Trace Chains	Per pair,	.85
No. 6-0—7 ft. Triumph Trace Chains	Per pair,	1.00
No. 5-0—3½ ft. Triumph Butt Chains	Per pair,	.45
No. 6-0—3½ ft. Triumph Butt Chains	Per pair,	.50
No. 2—6 ft. Triumph Kennel Chain	Each,	.40
No. 1—20 ft. Triumph Tethering Chain	Each,	.90
No. 0—20 ft. Triumph Tethering Chain, heavy	Each,	1.00

BROWN STEEL COW TIES AND HALTER CHAINS

No. 3-0—Brown Steel Cow Ties (Ohio pattern)	Each,	25c.
No. 4-0—Brown Steel Cow Ties (Ohio pattern)	Each,	30c.
No. 3-0—Brown Steel Halter Chains, 4½ ft	Each,	25c.

Fig. 2.

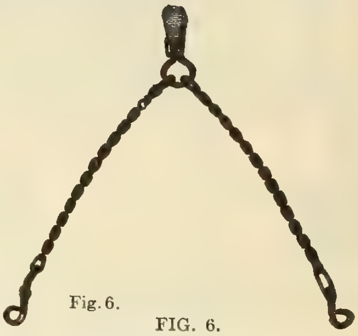


Fig. 6.

FIG. 6.

No. 71—Spreader Chains (Pennsylvania pattern) black or self color, stiff, **$3.25**.

No. 73—Repair Links, polished, **15c.** doz.

No. 75—Open Side Links, polished, **10c.** each.

No. 58—Long Link Log or Ox Chain, 12 x ⅜, **$1.75**.

No. 58—Long Link Log or Ox Chain, 14 x ⅜, **$2.00**.

No. 58—Long Link Log or Ox Chain, 14 x ½, **$2.50**.

No. 58—Long Link Log or Ox Chain, 14 x ⅝, **$3.00**.

No. 46—Cart Tug Chains, per pair, **30c.**

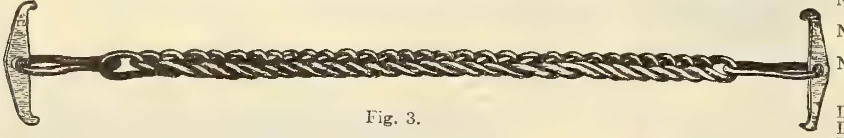


Fig. 3.

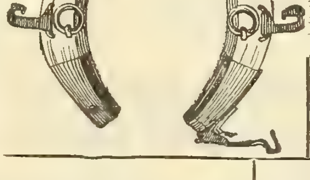
Fig. 3—BREAST CHAINS.

Double Stiff, 5-16	Pair,	$1.25
Double Stiff, ¼	Pair,	1.20
Double Slack	Pair,	.80
Single Slack	Pair,	.60

Fig. 7—REGULAR IRON TRACES.—See border.

7, 8, 2, retail price, per pr., **50c.** 7, 12, 2, retail price, per pr., **65c.**
7, 10, 2, retail price, per pr., **55c.** 7, 14, 2, retail price, per pr., **75c.**
7, 16, 2, retail price, per pr., **90c.**

Fig. 1—No. 67—Fifth Chain—See border.—Round hook, ring and swivel, bright or black, made with stretchers also if desired. No. 67, 10x⅜, with Reg. Hook, **$1.75**; No. 68, 10x⅜, with Patent Hook, **$2.40**; No. 1, Pennsylvania Pattern, black, stiff, heavy, **$6.00**.



HAMES.

	Per Pair.
Loudon Patent Hames	$1.00
Loudon Tie Hames	.75
Taylor Root Pat. Hames	.60
Taylor Root Tie Hames	.50
Sawed Pat. Hames	.50
Sawed Tie Hames	.30

Special prices to both wholesale and retail dealers.

Hame Strings.

Black, ⅝, **12c.** each.	$1.25	per doz.
Black, ¾, **15c.** each.	1.50	per doz.
R. Hide, ⅝, **10c.** each.	1.00	per doz.

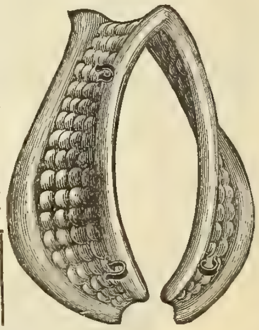
SWEAT PADS.

Brown and White Drill.

This brand presents more attractive features than any similar line of medium-priced sweat pads on the market.

PRICES.

10 inch	25c.
11 inch	30c.
12 inch	35c.

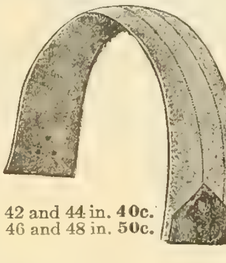


Buggy, Coach and Wagon Whips.

Made of the best material. Bone, Raw-hide and Wood Handles.

Assortment No. 10—3½ doz., per assortment	$ 9.00
Assortment No. 20—3½ doz., per assortment	11.25

Folded Duck Back Bands.



42 and 44 in. **40c.**
46 and 48 in. **50c.**

Web Back Bands.

No. 1—3½ in., 42 in. long	25c.
No. 1—4 in., 42 in. long	30c.
No. 2—3½ in., 42 in. long	15c.
No. 2—4 in., 42 in. long	20c.

Horse Collars.

No. 190—Draft Collars, split leather back and rim duck face, price, **90c.**

No. 1101—Team do., heavy, price, **$1.25.**

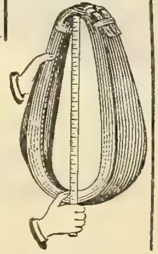
No. 136—Kip Team, sheep faced, price, **$1.75.**

No. 155—Scotch Kip, back and rim tick faced, price, **$2.20.**

No. 760—Heavy Kip Team, sheep faced, price, **$2.00.**

Felt-Less.

Pinked, Felt Edges, Composite Filling, Four Hooks.



Old Gold Drill. Best on the Market, **50c.**

Cheaper Old Gold, **50c.**

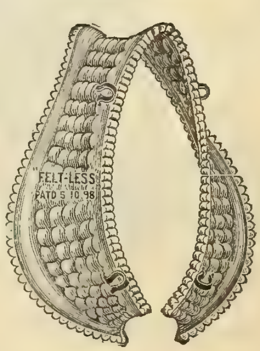


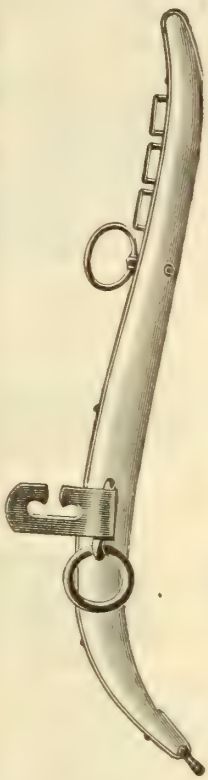
FIG. I. NO. 67-FIFTH CHAIN

FIG. I. NO. 67 FIFTH CHAIN

IRON BOUND HAMES, COLLARS AND COLLAR PADS.

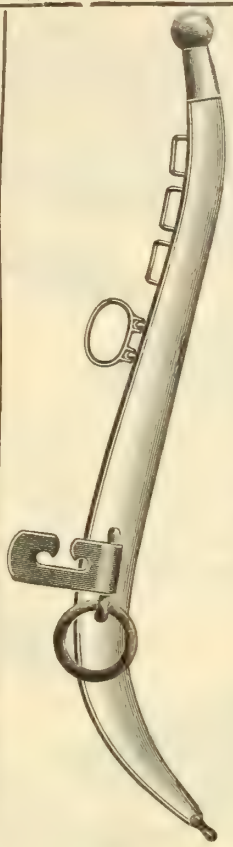
No. 2.

¾ inch steel backs.
Two top strap loops.
One stud line ring.
Single steel hooks and rings.
Varnished.
Size, 19 to 20 inches.
Price..... ..... **40c. pair.**



No. 1.

¾ inch steel backs.
Three top strap loops.
One stud malleable oval line ring.
Single steel hooks and rings.
Varnished.
Size, 19 to 20 inches.
Price.....**50c. pair.**



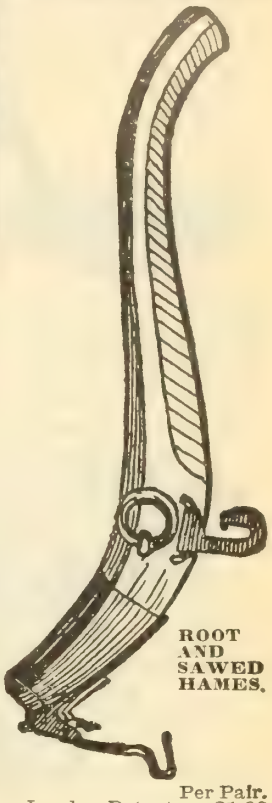
No. 15.

Rock elm wood.
¾ inch steel backs.
Three top strap loops.
Two stud line rings.
Clip staples and hold-backs.
Double steel hooks and rings.
X. C. ball, painted red.
Size, 19 to 21 inches.
Price.....**75c. pair.**

No. 61.

VIRGINIA CART.

Rock elm or ash wood.
⅛ inch stiff bottom loops.
¾x¼ inch steel backs.
Three mortise top loops.
Heavy wrought steel hooks.
Varnished.
Polished irons.
Size, 19 to 22 inches.
Price..... ....**80c. pair.**



ROOT AND SAWED HAMES.

	Per Pair.
Loudon Patent	**$1.00**
Loudon Tie	**.75**
Taylor Root Pat	**.60**
Taylor Root Tie	**.50**
Sawed Patent	**.50**
Sawed Tie	**.30**

Special prices to both wholesale and retail dealers.

HAME STRINGS.

Black.

⅝...**12c.** each, **$1.25** doz.
¾...**15c.** each, **1.50** doz.

Rawhide.

⅝...**10c.** each, **$1.00** doz.

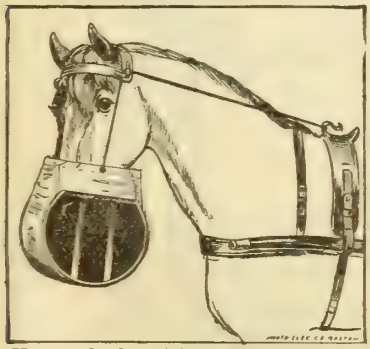
MODOC FEED BAG.

Plain wood bottom, overhead rope, with patent pocket.
Our Special Price.....**35c.**

PIONEER FEED BAG.

Patent pocket, bridle and pulley attachments. Patent centre-grooved wood bottoms and leather ventilators.
Our Special Price.....**$1.00**

WILLIAMS' FEED BAG.



Heavy duck, with woven-wire sides. It folds into a small space. The best wire-ventilated bag made.
Our Special Price.....**$1.25**

HORSE COLLARS.

No. 56—LIGHT DRAFT.
Split leather front, duck face.
Price.....**75c.**

No. 190.

DRAFT COLLARS.

Split leather back and rim duck face.
Price.....**90c.**

No. 1101.

TEAM COLLARS.

Heavy.
Price.....**$1.25**

No. 136—KIP TEAM.

Sheep faced.
Price.....**$1.75**

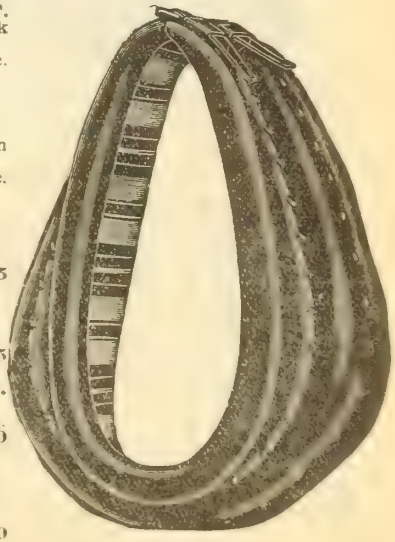
No. 155—SCOTCH KIP.

Back and rim tick faced.
Price.....**$2.20**

No. 760.

HEAVY KIP TEAM.

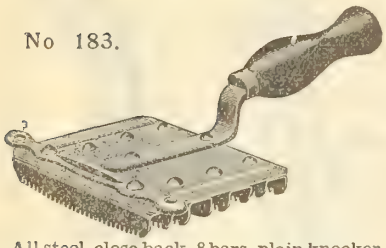
Sheep faced.
Price.....**$2.00**



STABLE REQUISITES.

CURRY COMBS AND BRUSHES.

No 183.



All steel, close back, 8 bars, plain knocker lacquered, enameled handle, brass ferrule, oval face, shank running through handle and riveted. Packed one dozen in box. Cases made for 24 dozen.

Price 20 cents each, $2.00 per dozen.

8 Bars, Hand Riveted.

PATENT APPLIED FOR.

No. 480

No. 480—Columbia.—Lacquered. 25c. each.

Packed one dozen in box. Cases are made for 24 dozen.

Price $2.50 per dozen.

EIGHT BARS, EXTRA HEAVY.

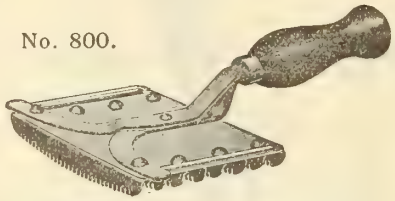
No. 490—All steel shank runs through handle and is riveted.

Price 25c. each, $2.50 per dozen.

Packed one dozen in box. Cases are made for 24 dozen.

All Steel, Close Back.

No. 800.



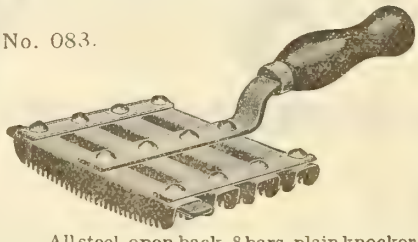
All steel, close back, lacquered, extra size, oval face, curved knockers, braced shank extending through handle and riveted, enameled handle, brass ferrule, 8 bars.

Packed one dozen in a box. Cases made for 24 dozen.

Price 25c. each, 5 for $1.00.

All Steel, Open Back.

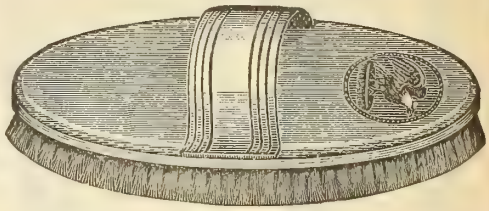
No. 083.



All steel, open back 8 bars, plain knocker, japanned, carmine handle, steel ferrule, oval face, shank running through handle and riveted. Packed one dozen in box. Cases made for 24 dozen.

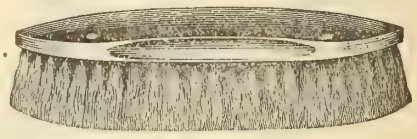
Each 15c. $1.50 per dozen.

LEATHER BACK BRUSHES.



No. 35—Patent Leather Back	Each	.40c.
No. 123—Yellow Leather Back	"	.50c.
No. 400—Yellow Leather Back	"	.60c.
No. 999—Russet Leather Back	"	.90c.
No. 80—All Bristle, Russet Leather, Flexible Back, Army, each		$1.25
No. 445—All Bristle, Russet Leather, Flexible Back, Army, each		1.50
No. 100—London, warranted all white Bristle	each	2.00

Dandy Brushes.



No. 10—Dandy	Each	.20c.
No 20—Dandy	"	.25c.
No. XX—Palmetto Dandy	"	.40c.
No. 940—Dandy	"	.45c.
No. 7000—Dandy, made of selected fine root	"	.60c.

All of above are packed six in a box.

No. 707—Grenelle Brushes, extra fine, each ..... .60c.

Hartman's Improved Hitching Post.

Cannot be broken or pulled out. Made of tubular steel, thoroughly painted. Anchored at the bottom and at the ground level. These posts furnished with Weldless Steel Chain and Spring Snap complete.

Price complete, $1.75.

No. 1 Web Halters.

Continuous piece No. 1 Web through metal corners.

Leather chin piece.

Rope Lead, leather latch, with snap.

PRICE 25 cents.

No. 699.

Adjustable Web Halters.

Continuous piece, solid color, No. 1 extra quality web, folded through metal corners, adjustable buckle. Leather chin piece with buckle. Rope lead, leather latch, snap.

PRICE ..... 40 cents.

Fancy Striped Halters.

No. 696.

Corners bound with leather, riveted to ring loops. Leather chin piece. Rope lead, leather latch, snap. **Price 30 cents.**

No. 238.

No. 238.

Cyclone Leather Halters.

One and a quarter inch, with 1¼ inch leather lead. **Price $1.35.**

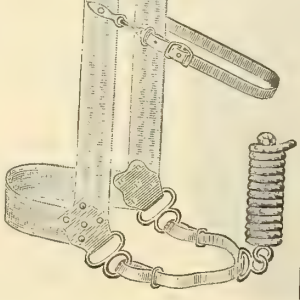
No 242—1¼ inch, with 1¼ inch leather lead.

Price ..... $1.25.

Rope Cattle Ties.

No. 652—½ in. Manilla rope, eight feet long, single snap, **Price 30 cents.** No. 655—½ inch XX Sisal rope, eight feet long, single snap, **Price 20 cents.**

No. 694.



No. 698. **Jute Web Halters.**

Jute Web, metal corners. Chin piece, one continuous piece rope Leather throat latch and buckle.

Price ..... 35 cents each.

Rope Halters.

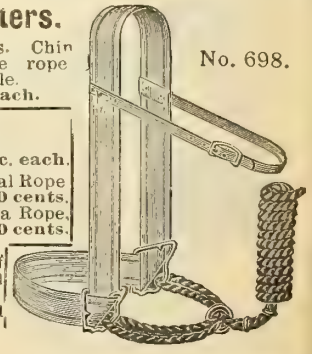
No. 684 1-2 in. Jute Rope. 15c. each.

No. 688—One-half inch XX Sisal Rope **Price ..... 20 cents.**

No. 690—One-half inch Manilla Rope, **Price ..... 40 cents.**

All of our rope goods are of best quality, standard size and full length.

Order by number for any kind of Halter.



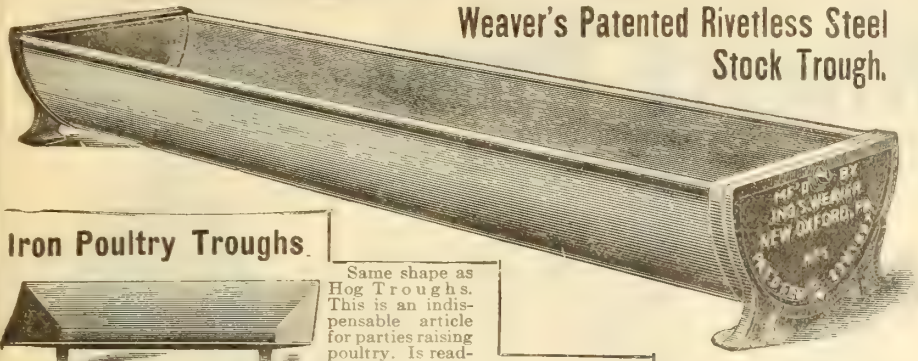
No. 698.

ROPE HORSE TIES.

No. 652—Half Inch Manilla, ten feet long, (two snaps) ..... **Price 35 cents.**

No. 667—Half Inch XX Sisal, ten feet long, (two snaps) ..... " 28 "

Weaver's Patented Rivetless Steel Stock Trough.



The only Steel Trough constructed without the use of rivets. Will not crack or burst on account of freezing. This Trough is made of No. 12 gauge steel, curved in semi-circular form, with ends of cast-iron fitted in each end of steel, and held in place by steel bands instead of rivets. These bands are shrunk around the end edges of steel, binding it firmly to the flange on the end, thereby making a perfectly water-tight joint.

	List.	Retail.
No. 3— 4 ft. long	$ 9.25	$ 5.00
" 3— 5 "	11.50	6.25
" 3— 6 "	13.50	7.30
" 3— 8 "	17.25	9.35
" 3—10 "	21.60	11.70
" 3—12 "	25.80	13.94
" 3—14 "	28.35	15.35
" 3—16 "	31.75	17.15

No. 3 Troughs are 18 in. wide, 9 in. deep, hold 8 gal. per ft.

	List.	Retail.
No. 4— 4 ft. long	$10.25	$ 5.55
" 4— 5 "	12.85	6.94
" 4— 6 "	15.35	8.30
" 4— 8 "	19.50	10.55
" 4—10 "	24.40	13.20
" 4—12 "	27.50	14.85

No. 4 Troughs are 20 in. wide, 10 in. deep, hold 10 gal. per ft.
Smaller sizes furnished on application.

Iron Poultry Troughs.

Same shape as Hog Troughs. This is an indispensable article for parties raising poultry. Is readily cleaned, and no leaking.

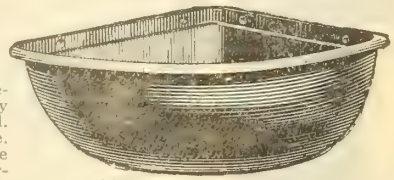
No. 0— 8 in. long, 3½ in. wide at top, 1½ in. deep.....20c.
No. 1—20 in. long, 4 in. wide at top, 1½ in. deep.....35c.
No. 2—23 in. long, 7 in. wide at top, 3 in. deep.....70c.
No. 3—29 in. long, 7 in. wide at top, 3 in. deep.....85c.

Iron Hog Troughs.

No danger in winter, when frozen full of ice, for them to burst. Twelve inches wide at top 2 inches wide at bottom and 6 inches deep. Made in lengths from 2 feet up to 8 feet, every 6 inches. Weight, per foot, 13 lbs.
Price .....40c. per foot.

Corner Mangers.

THE "SANITARY."

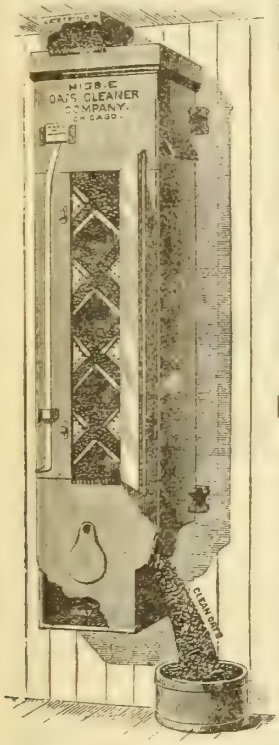


The rim is made of a superior quality of iron. The body of galvanized wrought steel. One of the best Mangers in use. The Government is using these "Sanitary" Mangers in preference to any other, large quantities being shipped to the Philippines.

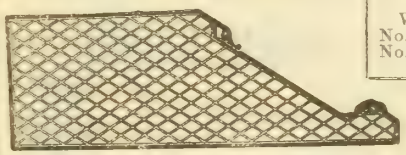
	List.	Retail.
No. 1—16 quarts	$1.50	$1.20
No. 2—22 quarts	1.75	1.40

Special Prices in Quantities.

We also have on hand CAST-IRON MANGERS, old style, as follows:
No. 188—16 in. long, 16 in. wide, 10 in. deep; weight, 30 lbs., each...$1.25
No. 187—15 in. long, 15 in. wide, 8 in. deep; weight, 22 lbs., each... 1.15
Special Prices in Quantities.

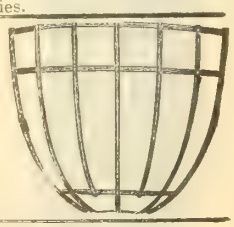


Crimped Wire Stall Guards.



2½ in. Diamond Mesh, No. 8 steel wire, with 1 inch channel iron frames, O. G. end, oval-banded top, screw holes bottom and end.
6 feet long, 25 inches high. Price, each.....$3.50
Special Prices in Quantities.
Larger sizes on application.

Wrought Hay Racks.



Far superior to cast-iron Racks, as frequently used.
Price $1.65

HIGBIE SELF-ACTING OATS CLEANER

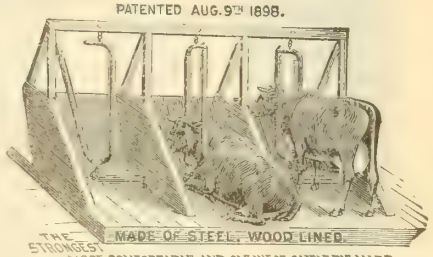
This Cleaner will remove one bushel of dust, dirt, stones, sticks, etc., from every twenty-five to thirty bushels of clean oats; or, in other words, each horse chokes down seven to ten bushels of dust, dirt, etc., per year, unless all oats are drawn through a Higbie Self-Acting Oats Cleaner.

Extending from top to bottom of the Cleaner are eleven downwardly inclined screens, operating in pairs. Below each pair of screens is located a Λ-shaped table; thus the oats fall alternating from the screens to the tables, the object of the Λ-shaped tables being to divide the oats and give them a very rapid impetus before dashing to the next set of screens. The operating valve is located in the top of the Cleaner. Directly below this is a large coarse grate which permits the oats to pass through, but throws off everything larger, such as stones, sticks, glass or any coarse trash that may be in the oats. Below this grate are the zigzag screens and the tables extending through the entire Cleaner to the discharge spout below. The dirt box is in the base of the Cleaner and may be emptied through a hand hole in the bottom.

Price $18.00

In use by Express Companies, Fire Departments, Baltimore Transfer Co., Armour, Swift, etc.

The Taylor Steel Stanchion.



The Strongest Stanchion Made. Since the frame consists entirely of steel and malleable iron it is practically indestructible and will last a lifetime

Gives Free and Natural Movement of the Head and Neck. Swings on chains, top and bottom, and gives much more freedom to the cow's head than the old style, stiff Stanchion. Practically the cows are as comfortable as when in the field; for they are able to lick their sides, and lie down with the head on the shoulder as nature intended.

No Mortised Corners to Wear Loose. The corners are formed of solid angle steel, bent to shape, and are as strong, if not stronger, than the straight sides.

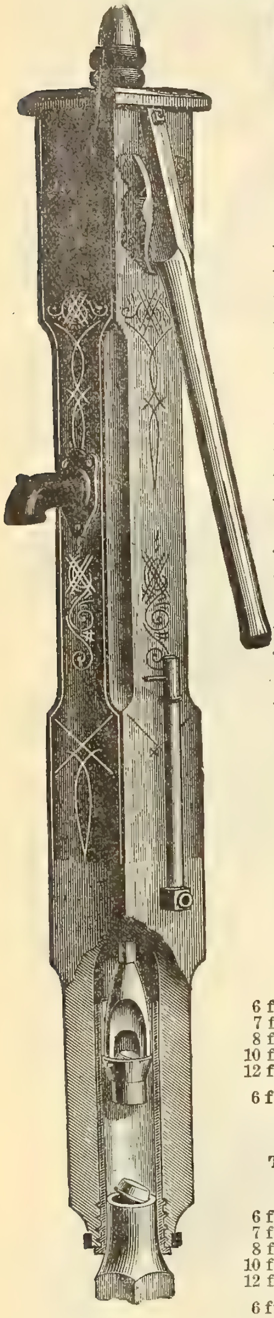
Not Cumbersome About Neck of Cattle The angle steel used in the Taylor Stanchion, which is one and one-quarter inches by one and one-quarter inches wide, is less than one-fourth as large as the wood used in other Stanchions

Dimensions of Stall For ordinary sized cattle give each a stall three feet wide by four feet six inches long, floor space. Make gutter along rear of stall of sufficient depth to catch all droppings. A stall so constructed with the Taylor Stanchion insures a larger production of milk.

Price, Style No. 1.....$1.50
Extra Heavy, No. 2.....2.00

OX YOKES COMPLETE.

No. 2—7½ in. on neck, by 20 in. between bows, list price $6.50
No. 3—8 " " " 21 " " " " " 7.50
No. 4—8½ " " " 22 " " " " " 8.00
No. 5—9 " " " 23 " " " " " 9.00
No. 6—9½ in. on neck, by 24 in. between bows, list price $9.50
No. 7—10 " " " 25 " " " " " 10.00
Ox Bows, per pair, regular, list price 1.20
Ox Bows, per pair, heavy, list price 1.40



Baltimore Pump

With and Without Porcelain Cylinder.

PRICES OF PUMPS FITTED COMPLETE.

Depth of Well.	6x6 Unlined. List Price.	6x6 Unlined. Retail Price.	6x6 Lined. List Price.	6x6 Lined. Retail Price.	7x7 Lined. List Price.	7x7 Lined. Retail Price.
6	$7.52	$5.26	$9.02	$6.31	$10.77	$7.53
8	7.86	5.50	9.36	6.55	11.11	7.77
10	8.20	5.74	9.70	6.79	11.45	8.00
12	8.54	5.97	10.04	7.02	11.79	8.25
14	9.16	6.41	10.66	7.46	12.41	8.68
16	9.54	6.67	11.04	7.72	12.79	8.95
18	9.92	6.94	11.42	8.00	13.17	9.20
20	10.30	7.21	11.80	8.26	13.55	9.48
22	10.68	7.47	12.18	8.52	13.93	9.75
24	......	......	13.18	9.22	15.43	10.80
26	....	......	14.18	9.92	16.93	11.85
28	......	......	15.18	10.62	17.68	12.37
30	......	......	16.00	11.20	18.75	13.12
32	......	......	17.00	11.90	20.00	14.00
34	.	... ..	18.25	12.77	21.00	14.70
36	.....	......	19.25	13.47	22.00	15.40
38	......	......	20.50	14.35	23.25	16.27
40	......	......	21.75	15.23	24.50	17.15
45	......	..	25.00	17.50	27.75	19.42
50	.....	......	27.50	19.25	30.00	21.00

SPECIAL DISCOUNT FOR CASH.

PRICE LIST BALTIMORE WOOD PUMPS

AS REVISED BY

National Association of Wood Pump Manufacturers

MARCH 11, 1903.

THIS PRICE LIST SUPERSEDES ALL HITHERTO USED.

"No. 0".—STOCK PUMPS.

7x7 Inches, 4 In. Bore.

	Unlined.	Porc. lined.
6 feet long	$7.00	$8.75
7 feet long	7.75	9 50
8 feet long	8.50	10.25
10 feet long	10.00	11.75
12 feet long	11.50	13.25

6 ft. long. reamed for 6x6 extension pipe, unlined 7.25

"No. 1."

THE FAVORITE HOUSE PUMPS.

6x6 Inches, 3½ In. Bore.

	Unlined.	Porc. lined.
6 feet long	$5.50	$7.00
7 feet long	6.00	7.50
8 feet long	6.50	8.00
10 feet long	7.50	9.00
12 feet long	8.50	10.00

6 ft. long, reamed for 6x6 extension pipe, unlined 5.75

PUMPS FOR DRIVE WELLS.

To Fit 1¼, 1½ or 2 In. Iron Pipe.

No. 1.—House, 6 feet long, porcelain-lined iron cylinder............**$8.00**

Special porcelain-lined cylinder, 5 feet wood extended entire length, 6 feet.................... **7.50**

BRASS JACKET DRIVE WELL POINTS.

Numbers.	Diameter of Pipe.	Length Jacket.	Length Pipe.	Number Holes.	No. 60 Gauge, List Price, Per Dozen.	Retail Price, Each.
90	1¼	18 in.	24 in.	100	$36.00	$0.75
94	1¼	24 in.	30 in.	130	46.00	.96
98	1¼	30 in.	36 in.	165	56.00	1.16
102	1¼	42 in.	48 in.	270	76.00	1.60
136	1½	18 in.	24 in.	120	48.00	1.00
140	1½	24 in.	30 in.	162	60.00	1.25
144	1½	30 in.	36 in.	198	72.00	1.50
148	1½	42 in.	48 in.	276	96.00	2.00

WOOD CHAIN PUMPS.

This Wood Curb Chain Pump is first class in every respect; nicely finished; nicely painted and striped.

PRICES.

Chain Pump Curbs. Each....................**$2.00**

Chain Pump Tubing. Per foot....................5c.

Chain (running 4 to 4½ feet to pound). Per pound....................7c.

COUPLINGS.

6x6 for 4x4 tubing, each....................$0.50

MISCELLANEOUS.

Buckets, 5-inch, each	1.25
Buckets, 4-inch, each	1.00
Buckets, 3½-inch, each	.80
Buckets, 3-inch, each	.65
Handle, any size, each	.30
Handles, Links or Knuckles	.25
Check Valves, per dozen	1.50
Iron Connection for drive wells, fitted for 1¼-inch and 1½-inch iron pipe	1.00
Extra Iron Spouts, japanned, each	.30
Extra Iron Spout, with loose collar	.40
Extra Wood Spouts, each	.15
Extra Spout Braces, each	.15
Extra Bands	.10
Extra Ears or Brackets, Nos. 35 and 36, open, each	.40
Extra Ears or Brackets, Nos. 35 and 36, closed, each	.40
Extra Splice Straps, per pair	.25
Extra Frost Faucets, each	.40
Plunger Rod, per foot	.03

TUBING.

4x4 12 feet long and under, per foot	.17
4x4 over 12 feet long, per foot	.19
6x6 extension tubing, per foot	.50

BUCKEYE FORCE AND LIFT IRON PUMPS.

Fig. 41. No. 392.

Fig. 41, No 392—4 foot Set Length, Lift Pump, Syphon Spout, Hand Use; adjustable base and brace; Iron Cylinder, 3 inches. Fitted for 1¼-in. pipe.

Price, Retail.....**$4.00**

Fig. 72. No. 22.

Fig. 72.
No. 22—Single-Acting, Set Length, Hand Force Pump, 6-in. stroke, 3-in. Iron Cylinder. Fitted for 1¼-in. pipe.

Price, List, **$12.50.** Retail, **$6.50.**

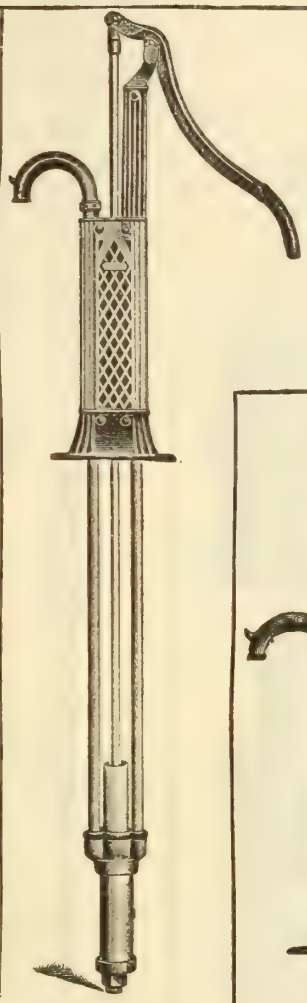
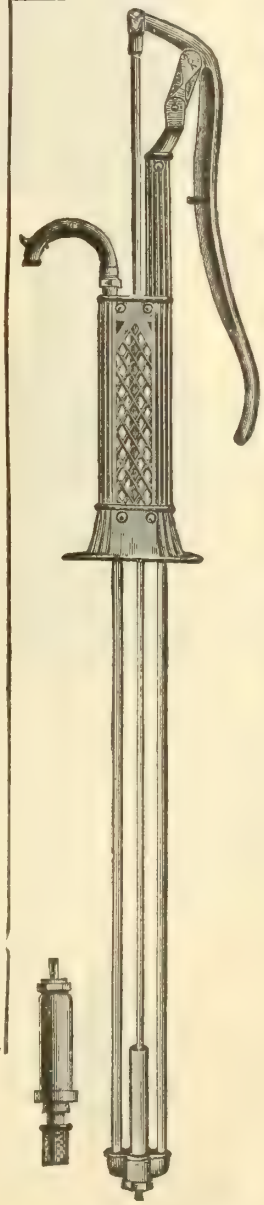


Fig. 13, No. 200—Four foot, Set Length, Lift Pump, for wells under 20 ft.; 3-in. Porcelain-Lined Cylinder. Fitted for 1¼-in. pipe. List, **$13.00.** Retail, **$7.80.**

Fig. 14, No. 201—5½ foot, Set Length, for wells under 26 ft. deep; 3-in. Brass-Lined Cylinder. Fitted for 1¼-in. pipe. List, **$14.00.** Retail **$8.40.**

Fig. 14, No. 215—Deep Well Force Pump, for wells from 30 to 70 ft. deep; 3-in. Brass-Lined lower Cylinder, 6-in. stroke. Fitted for 1¼-in. pipe. List, **$15.00.** Retail, **$9.00.**



g. 14. No. 518.

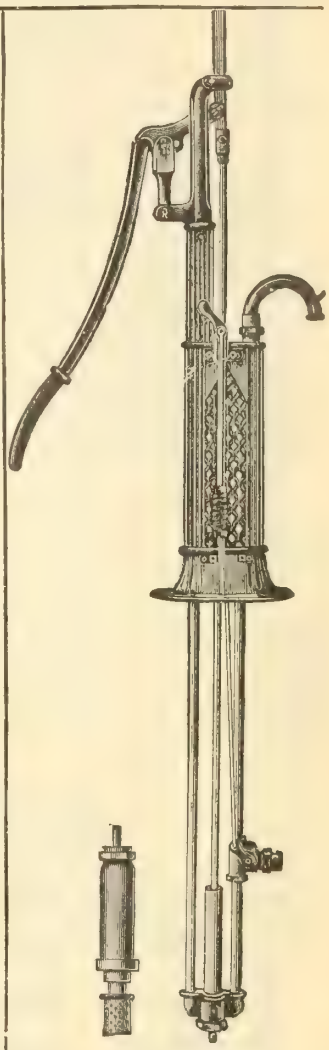


Fig. 56. No. 836.

Fig. 56, No. 836—Deep Well Force Pump, with Windmill Head, for wells from 30 to 70 ft. deep; with 3-way cock 2½-in. Brass lower Cylinder; 6 to 9-in. stroke, with one-inch air chamber and discharge pipe. List, **$20.50.** Retail, **$12.30.**

Fig. 14, No. 518—Deep Well Force Pump, for wells from 30 to 50 ft. deep; 9-in. stroke, 2½-in. Brass lower Cylinder. List, **$17.00.** Retail, **$10.20.**

Fig. 14, No. 515—Similar to the above, except it has 3-in. Brass-Lined lower Cylinder. List **$16.00.** Retail, **$9.60.**

Fig. 81

Anti-Freezing Force and Lift Pump.

Fig. 81.

For Wells from 10 to 150 feet.

Brass cylinder; deep or shallow wells; light top; large air chamber. Adjustable brace and base. Discharge fitted for ¾-inch hose. Will go inside 3-inch casing.

Cylinder, 2½ inches. Stroke, 10 inches. Suction, 1¼-inch pipe.

Price, Brass Body Cylinder,

List'.....$17.00
Retail.....10.00

The IXL Galvanized Steel Curb.

It will not rust, being made out of No. 24 Gauge Galvanized Steel.

It will not rot or accumulate filth, and leaves the water clear and pure.

It is anti-freezing, as the reservoir piece has a small hole in same, which allows the water to run out.

It can be used in wells as deep as 40 feet.

PRICES.

Galvanized Curb.....$3.25
Tubing, per foot..... .07
Coupling..... .16
Rubber Buckets..... .08
Iron Platform..... 4.00
Chain, per lb..... .07

Water Elevator and Purifier

Purifies water by means of oxygen forced into water.

Strength, durability and workmanship cannot be surpassed.

Pumps are carefully inspected before leaving factory.

PRICE.

Elevator, with 25-foot Chain and Japanned Bottom Wheel for 10-foot cistern....$6.50
Same, with 30-foot Chain for 12-foot cistern..... 7.25

Extra Chain, 15c. per foot.

The Gem Galvanized Steel Chain Pump.

Has extension base, which also projects below platform, and is easily fitted by cutting a square hole in the platform the length and the width of the bottom of pump.

The fixtures are first-class and anti-freezing.

The pump is painted stone color, with two coats of the best paint, and is neatly stenciled and varnished.

Made entirely of Galvanized Steel, in four pieces, locked together with its own metal.

There are neither rivets nor solder on it, making it very strong.

Price.....$2.50

Improved Close-Top Pitcher-Spout Pump.

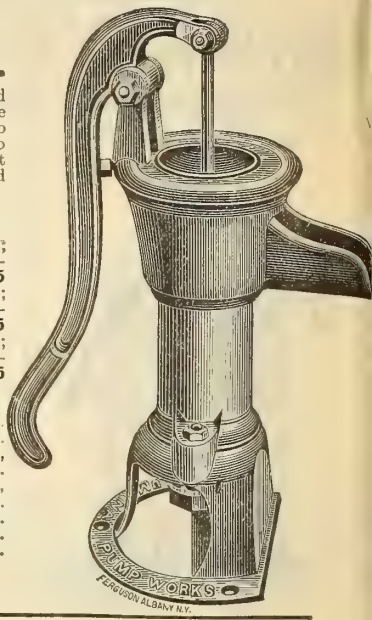


Fig. 19 represents our Improved Close-Top Pitcher-Spout Pump. The construction of this style of pump is so well known and understood by pump dealers everywhere that we deem it unnecessary to give any extended description of it here.

SIZES AND PRICES.

No. 1—Diameter of Cylinder, 2½ in.; Suction, 1 in.; Polished Iron Cylinder. List, $4.25. Retail....$1.15
No. 2—Diameter of Cylinder, 3 in.; Suction, 1¼ in.; Polished Iron Cylinder. List, $4.75. Retail....$1.25
No. 3—Diameter of Cylinder, 3½ in.; Suction, 1½ in.; Polished Iron Cylinder. List, $5.25. Retail....$1.35

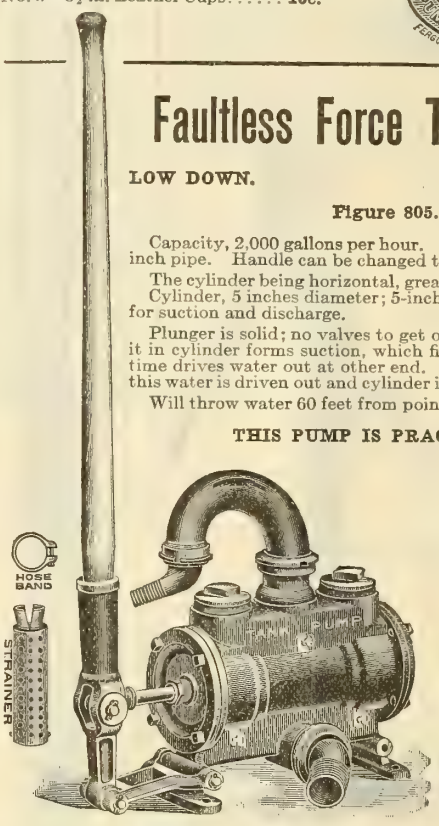
PITCHER PUMP LEATHERS.

No. 1—Valve and Plunger Leathers each..... 5c.
No. 2—Valve and Plunger Leathers, each..... 8c.
No. 3—Valve and Plunger Leathers, each..... 10c.
No. 1—2½ in. Leather Cups..... 10c.
No. 2—3 in. Leather Cups..... 12c.
No. 3—3½ in. Leather Cups..... 15c.

Faultless Force Tank Pump.

LOW DOWN. **DOUBLE ACTING.**

Figure 805.



Capacity, 2,000 gallons per hour. Fitted for hose and two inch pipe. Handle can be changed to opposite end.

The cylinder being horizontal, great strength is gained.

Cylinder, 5 inches diameter; 5-inch stroke; 2-inch openings for suction and discharge.

Plunger is solid; no valves to get out of order, and moving it in cylinder forms suction, which fills cylinder and at same time drives water out at other end. Then, on return stroke, this water is driven out and cylinder is refilled from other end.

Will throw water 60 feet from point of nozzle.

THIS PUMP IS PRACTICABLE

For filling thresher tanks, washing out boilers; for use in shallow stock wells, draining cellars and barnyards, and washing wagons, spraying fruit trees, putting out fires, and general use on a farm. It is fitted with drip cocks to drain cylinder.

Pump, with hose nipple, hose attachment hose-band and strainer.....$7.00
1-inch discharge hose, Balto., 20c. ft.
2-inch suction hose, plain bore, galvanized, flat, spiral wire, per foot..... 40c.

Fig. 1.

THE QUEEN.

Price.....7c.

Fig. 2.

CROSBY SWIVEL LINK.

Price, Crosby Swivel Link.....9c.
Plain..... 8c.

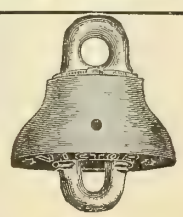


Fig. 3.

VICTOR EXPANSION RUBBER BUCKET.

For Chain Pumps; Anti-Freezing.
Price.....10c.

Fig. 4.

IXL RUBBER BUCKET.

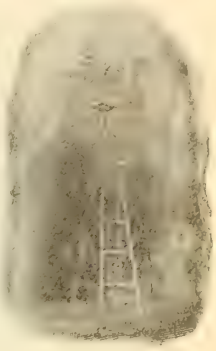
Price.....8c.

The Galvanized Imperial Steel Wind Mill

The Engine Gear or working parts are made entirely of malleable iron—greatly reducing the weight of these parts and eliminating almost entirely all possibility of breakage. This machine frame contains our patented internal gear device, which gives us a protected and covered gear, and reduces the speed of the pump when thus applied two and one-half times to that of the wheel, and, as is well known, brings three cogs into mesh at once instead of one, constituting a gear that will more than outlast three external gears. The shaft is of the best steel shafting, and the entire gear works in such complete harmony that the best possible results are obtained.

As compared with the many steel wind mills now manufactured, it is **stronger, more simple in construction** and develops **more power** to the area of the wheel than any other make with which we have had the opportunity of making a comparative test.

The Wheel contains a greater number of fans than are used in any other make of wheels, and with the attention that is given to the curves and angles at which they are set produces a wheel of superior strength and power.



GALVANIZED STEEL TANK TOWERS FOR 8 AND 10 FOOT MILLS.

Complete with Anchor Posts and Iron Plates.

		Weight in lbs.	Price.
30 ft. to elevate 20 bbl. tank	10 ft.	825	**$53.70**
40 " " " " "	20 "	1100	**71.70**
50 " " " " "	30 "	1400	**92.60**
60 " " " " "	40 "	1750	**117.10**
40 " " " 60 " "	10 "	1475	**94.35**
50 " " " " "	20 "	2000	**130.50**
60 " " " " "	30 "	2600	**169.50**

IMPERIAL STEEL WIND MILLS—Galvanized.

	Weight in lbs.	Price.
8 ft. Back Geared	370	**$33.75**
10 " " "	500	**46.50**

10 ft. [illegible] Back geared.

FOUR POST GALVANIZED STEEL TOWERS FOR 8 AND 10-FOOT MILLS.

Complete with Anchor Posts and Iron Plates. Girts every five feet.

	Weight complete, lbs.	Price.
30 ft. Galvanized Steel Tower	535	**$32.55**
35 " " " "	645	**38.40**
40 " " " "	720	**43.50**
50 " " " "	920	**56.70**
60 " " " "	1145	**70.65**

THREE POST GALVANIZED STEEL TOWERS FOR 8-FOOT MILLS.

Complete with Anchor Posts and Iron Plates. Girts every five feet.

	Weight complete, lbs.	Price.
30 ft. Galvanized Steel Tower	430	**$26.55**
35 " " " "	510	**31.20**
40 " " " "	570	**35.40**

Wood Actuating Rod for 35 ft. tower is included with all Mills. In ordering Mills for Towers over 35 feet high, please specify if the Actuating Rod is wanted for entire height of tower.

Wood Actuating Rod, per foot, **4** cents.

Iron Clamps for Actuating Rod, with bolts, per pair, **45** cents.

ROUND SUPPLY TANKS.

Two-inch Lumber with Flat Hoops.

Length of Stave.	Diameter of Bottom.	Number of Hoops.	Capacity.	Price.
4 feet.	4 feet.	4	11 bbls.	**$18.00**
4 feet.	5 feet.	4	16 bbls.	**25.00**
5 feet.	5 feet.	4	20 bbls.	**28.00**
6 feet.	5 feet.	5	24 bbls.	**30.00**
5 feet.	6 feet.	4	30 bbls.	**33.00**
6 feet.	6 feet.	5	36 bbls.	**36.00**
7 feet.	6 feet.	6	42 bbls.	**42.00**
6 feet.	7 feet.	5	50 bbls.	**46.00**

SUB-STRUCTURES—Galvanized. Metal Parts Only.

	Weight in lbs.	Price.
11 ft. to support 5 x 5 ft. Tank	375	**$24.30**
21 " " " " "	660	**42.90**
31 " " " " "	1000	**65.25**
41 " " " " "	1350	**87.75**
11 ft. to support 6 x 6 ft. Tank	425	**27.60**
21 " " " " "	770	**50.25**
31 " " " " "	1160	**75.45**
41 " " " " "	1560	**101.40**
51 " " " " "	2000	**130.50**
11 ft. to support 8 x 8 ft. Tank	710	**46.15**
21 " " " " "	1260	**81.90**
31 " " " " "	1850	**120.15**
41 " " " " "	2490	**162.00**
51 " " " " "	3185	**207.00**

TAPER TANKS.

2-Inch Lumber with Flat Hoops and Draw Lugs.

Length of Stave.	Diameter of Bottom.	Diameter of Top.	Capacity.	Price.
8 ft. 10 in.	5 ft. 1½ in.	2 ft. 6 in.	25 Barrels.	**$40.00**
8 ft. 10 in.	7 ft. 11 in.	5 ft. 4½ in.	60 Barrels.	**65.00**

GENERAL INFORMATION CONCERNING IMPERIAL WIND MILLS.

Diameter	6 feet	8 feet	10 feet	12 feet	14 feet
Number of Spokes	8 pair	10 pair	12 pair	14 pair	17 pair
Number of Sections	8	10	12	14	17
Number of Blades	16	20	24	28	34
Length of Stroke	4 and 5 inch	4, 5 and 7½ inch	4, 6 and 8 inch	4, 6 and 8 inch	6, 8 and 12 inch
Back Geared	4 to 1	2½ to 1	2½ to 1	2½ to 1	2½ to 1
Shipping Weight	300 lbs.	370 lbs.	500 lbs.	650 lbs.	950 lbs.

NOTE.—10, 12 and 14-foot Imperial Mills are made direct stroke (one stroke to each revolution of the wheel) when so ordered.

DIRECTIONS FOR ORDERING WIND MILL OUTFITS.

In writing for estimates or ordering wind mills, it is important that we have the information indicated below, in order to make intelligent quotations.

1. Source of supply; if well or spring, give depth from surface of ground to bottom.
2. If a bored or drilled well, give diameter inside.
3. Depth of water in dry season.
4. Height above platform of well to where water is to be delivered.
5. Is it desired to place the mill and tower over the well or on a building?
6. If mill is not placed over the well, give distance from well and elevation of surface of ground above or below surface at well.
7. Give distance from center, underneath wind mill, to each point of delivery.
8. Quantity of water required each day.
9. Capacity or dimensions of tank wanted.
10. Necessary height of tower to obtain clear sweep of wind. (At least ten feet higher than surrounding trees, buildings, etc.)
11. A rough sketch with distances plainly marked will be of assistance.

DEPARTMENT OF HARNESS.

BUGGY HARNESS.

No 700—SINGLE BUGGY HARNESS.

Bridle, $\frac{5}{8}$ inch; Traces, 1 inch; Saddle, $2\frac{1}{2}$ inches; Breast Collar and Breeching, single leather; Flat Lines, with Web-Hand parts; X-C Mounting. Price, with Collar and Hames, $7.20; with Breast Collar, $6.60.

No. 603—SINGLE BUGGY HARNESS.

Bridle, $\frac{5}{8}$ inch; Traces, $1\frac{1}{8}$ inches; Saddle, 3 inches; with Nickel Hook and Terrets; Breast Collar and Breeching, folded, with straight lay; flat Lines; X-C Mounting; imitation Hand Stitched. Price, with Collar and Hames, $10.25; with Breast Collar, $9.60.

No. 4—SINGLE BUGGY HARNESS

Bridle, $\frac{5}{8}$ inch; Traces $1\frac{1}{4}$ inches; Saddle, 3 inches; Breast Collar and Breeching, folded with straight lay; flat Lines; X-C Mounting, with Nickel Hook and Terrets; imitation Hand Stitched. Price, with Collar and Hames, $12.60; with Breast Collar, $11.50.

No. A—HAND-MADE SINGLE BUGGY HARNESS.

Bridle, $\frac{5}{8}$ inch; Traces, $1\frac{1}{8}$ inches; Saddle, 3 inches, Hand Laced, Leather Lined; Breast Collar and Breeching, folded with wave lay; flat Lines; full Nickel or imitation Rubber Mounting; Hand Stitched. Price, with Collar and Hames, $22.25; with Breast Collar $20.50.

No. 29—DOUBLE BUGGY HARNESS.

Bridle, $\frac{5}{8}$ inch; Traces, 1 inch; fancy bound Pads; $1\frac{1}{4}$ inch side pieces and folded bellybands; Turnback, $\frac{3}{4}$ inch; Hip Strap, $\frac{5}{8}$ inch, with patent leather Drops; flat Lines; Kip Collars; X-C Mounting. Price, $19.20.

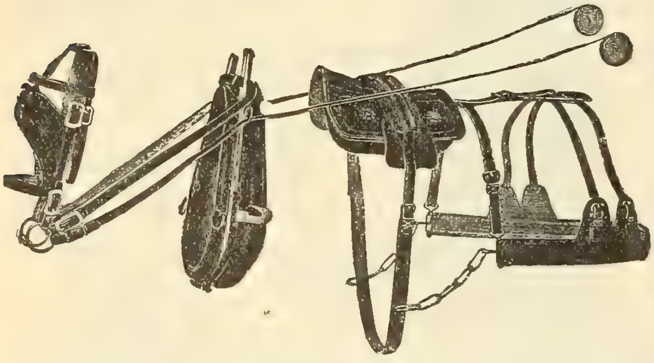
No. 19—DOUBLE BUGGY HARNESS

Bridle, $\frac{5}{8}$ inch; imitation Chain Front; Traces $1\frac{1}{8}$ inches; fancy bound Pads under same; $1\frac{1}{4}$ inch side pieces and folded Bellybands; Turnback, $\frac{3}{4}$ inch; no Hip Strap; flat Lines; patent leather Collars; full Nickel or imitation Rubber Mounting; imitation Hand Stitched. Price, $24.00.

No. 35—DOUBLE BUGGY HARNESS.

Bridle, $\frac{5}{8}$ inch; Traces, $1\frac{1}{8}$ inches; plain Pads, with leather Housings under same; $1\frac{1}{4}$ inch side pieces; folded Bellybands; Turnback, $\frac{3}{4}$ inch, waved; flat Lines; patent leather Collars; Nickel or imitation Rubber Mounting; imitation Hand Stitched; nicely finished. Price, $30.00.

DUMP CART HARNESS.



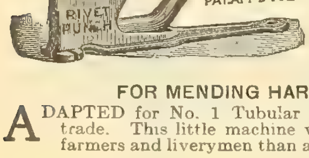
No. A—DUMP CART HARNESS.

Bridle, $\frac{7}{8}$ inch; Lines, $\frac{7}{8}$ inch; Breeching, 3 inches; No. 5 Saddle, leather covered; No. 62 iron-bound Hames; $\frac{7}{8}$-inch Hame Straps; Tug Chains; Kip Team Collar. Price, $12.25.

No 8—DUMP CART HARNESS.

Bridle, No. 218, with Winker Stays; Hames, No. 61, Virginia Hook, with straps; Collar, all Kip Team; Saddle, No. 8, Doubled and Stitched Top, full Pad, leather Girth; Breeching, No. 5, 3-inch double Body, $1\frac{1}{2}$ inches Turnback, $1\frac{1}{4}$-inch double Hip Straps. Price, $18.00.

PRICES ON CHEAP CART HARNESS ON APPLICATION.



SAVE MONEY ON THE FARM BY USING

RIVET PUNCHES.

THE "FARMERS' FACTOTUM."

FOR MENDING HARNESS, BELTING, ETC.

ADAPTED for No. 1 Tubular Rivets, which are sold by the hardware trade. This little machine will save more time and money for the farmers and liverymen than anything on the market.

PRICE.

Tom Thumb	40c.	Plymouth	50c.
Uncle Sam	50c.	Rivets, box of 100	15c.
Rivets, box of 50	10c.	Rivets, four boxes	50c.

CARRIAGE HARNESS.

No 93—SINGLE CARRIAGE HARNESS.

Bridle, $\frac{5}{8}$ inch; Traces, $1\frac{1}{4}$ inches; Saddle, $3\frac{1}{2}$ inches; Breast Collar and Breeching, folded with straight lay; flat Lines; X-C Mounting; imitation Hand Stitched. Price, with Collar and Hames, $13.50; with Breast Collar, $12.60.

No 94—SINGLE CARRIAGE HARNESS.

Bridle, $\frac{3}{4}$ inch, Chain Front; Traces, $1\frac{1}{4}$ inches; Saddle, 4 inches; Breast Collar and Breeching, folded with straight lay; flat Lines; Nickel Hook and Terrets; and balance of Mounting X-C; imitation Hand Stitched. Price, with Collar and Hames $14.25; with Breast Collar, $13.25.

No 354—SINGLE CARRIAGE HARNESS.

Bridle, $\frac{5}{8}$ inch Front; Traces, $1\frac{1}{8}$ inches; Saddle, 3 inches, Hand Laced Leather Lined; Breast Collar and Breeching, folded with wave lay; flat Lines; full Nickel or imitation Rubber Mounting; imitation Hand Sittched. Price, with Collar and Hames, $15.00; with Breast Collar, $13.25.

No 20—EXPRESS HARNESS

Bridle, $\frac{3}{4}$ inch; Traces $1\frac{1}{2}$ inches; to buckle to Hames or with Heel Chains and attached to Hames; Saddle, $4\frac{1}{2}$ inches, with Kersey Lining; folded Breeching, with straight lay; double Hip Straps; Brass or Nickel Mounting; imitation Hand Stitched. Price, $21.50.

No. 27—EXPRESS HARNESS.

Bridle, $\frac{3}{4}$ inch; Traces, $1\frac{1}{4}$ inches; Saddle, 4 inches; red wood Hames, with X-C Ball Top; folding Breeching with straight lay; double Hip Straps; X-C Mounting. Price, $15.00.

No 18—EXPRESS HARNESS.

Bridle, $\frac{3}{4}$ inch; Traces $1\frac{1}{4}$ inches, with Cock Eyes; Saddle, 4 inches, with Kersey Lining; red wood Hames, with Brass Ball Top; folded Breeching, with straight lay; double Hip Straps; Brass Mounting; imitation Hand Stitched. Price, $18.60.

No. 10½—DOUBLE WAGON HARNESS.

Bridle $\frac{3}{4}$ inch; Harness Leather Winkers; Ball Top Hames; $1\frac{1}{2}$-inch Traces, riveted to Hames, with Chain Ends; folded Pad and Breeching; $\frac{3}{4}$ inch double Hip Strap; Kip Face Collars; flat Lines. Price, $22.75.

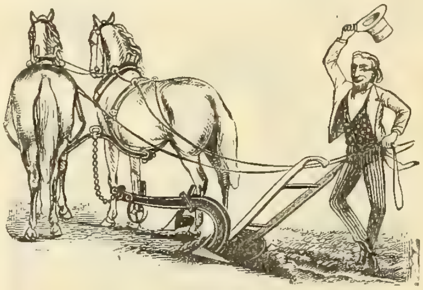
No 9—DOUBLE WAGON HARNESS.

Bridle $\frac{3}{4}$ inch; patent leather Winkers; Ball Top Hames; $1\frac{1}{2}$-inch Traces, riveted to Hames, with Chain Ends; folded Pads and Breeching; $\frac{3}{4}$ inch double Hip Strap; Kip Collars; flat Lines; imitation Hand Stitched. Price, $25.75

No. 17—HEAVY DOUBLE WAGON HARNESS.

Bridle, $\frac{3}{4}$ inch; patent leather Winkers; Box Loop Checks; Brass Ball Top Hames; 2-inch Traces, riveted to Hames, with Chain Ends; heavy Pads and Breeching; 1-inch double Hip Strap; Kip Collars; flat Lines; imitation Hand Stitched. Price, $38.40.

HORSEBACK GOODS ON APPLICATION.



THE SHERWOOD TUGLESS HARNESS.

This Harness is specially suited to plowing in orchards as there are no chains or single trees to cut the bark of the trees. It can be adapted to any kind of work.

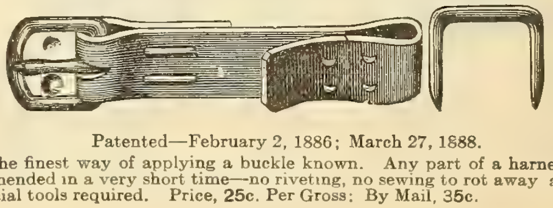
THIS HARNESS CONSISTS OF—

1.—Yoke suspended underneath horses, made of spring steel, oil tempered.
2.—Back-bands made of best quality four-inch webbing.
3.—Hames, good quality, same style as ordinarily used either on high or low tops.
4.—Short tugs, short steel rods properly bent, with short chains attached for purpose of adjustment.
5.—Draft chain, seven feet in length.
6.—Hame straps, good quality leather.

Price, No. 2.—For horses weighing from 1,000 to 1,300............ $12.00

(This is the regular size for farm work.)

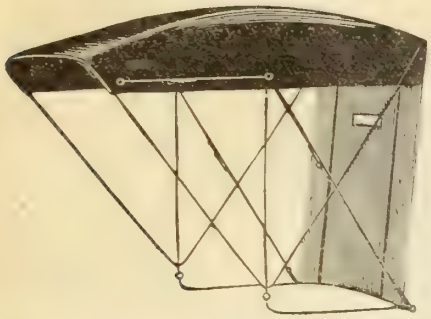
"RAPID" HARNESS MENDERS.



Patented—February 2, 1886; March 27, 1888.

The finest way of applying a buckle known. Any part of a harness can be mended in a very short time—no riveting, no sewing to rot away and no special tools required. Price, 25c. Per Gross; By Mail, 35c.

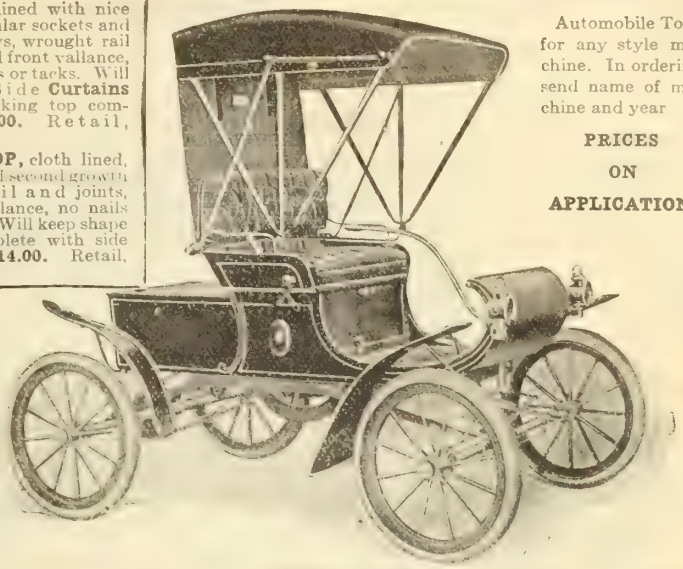
BUGGY TOPS.



DRILL TOP, lined with nice union cloth. Tubular sockets and second growth bows, wrought rail and joints, stitched front vallance, does not show nails or tacks. Will keep in shape. Side **Curtains are included,** making top complete. List, **$12.00.** Retail, **$8.00.**

RUBBER TOP, cloth lined, tubular sockets and second growth bows, wrought rail and joints, stitched front vallance, no nails or tacks exposed. Will keep shape for years. Complete with side curtains. List, **$14.00.** Retail, **$9.00.**

AUTOMOBILE TOPS.



Automobile Tops for any style machine. In ordering send name of machine and year

PRICES ON APPLICATION.

CORDED CLOTH CUSHION WITH FALL.

NICELY MADE.—In ordering Cushions give number, size of bottom of seat inside, size of fall at top and bottom and depth from top of sill, or enclose paper pattern.

In ordering Backs give exact measurement of seat at top of rim, from out to out, or if seat is ready ironed up with back board in position, send paper pattern of the exact size and shape of back wanted.

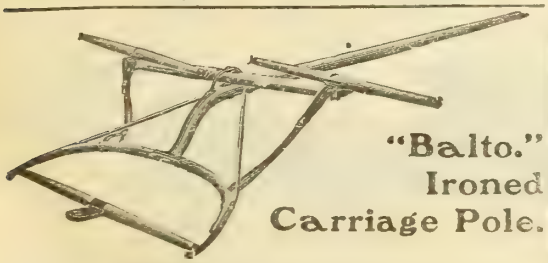
List.....$3.00 Retail.....$1.75

CORDED BACK, TO MATCH ABOVE.

List.....$3.50 Retail.....$2.00

Plain Drill Wagon Cushions.

List.....$1.50 Retail.....$1.00



"Balto." Ironed Carriage Pole.

Is well ironed with wrought iron tees; double or single hammer strap; heavy drop forged stay irons. In every way suitable for medium grade work. Prices are for Pole complete, which include neck yoke, double and single trees and check straps.

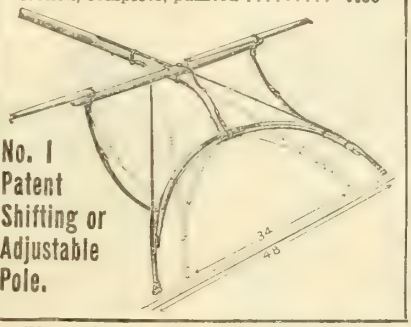
Ironed, complete, in the white.....$5.00
Ironed, complete, painted.....6.00

BUGGY WHEELS FINISHED.

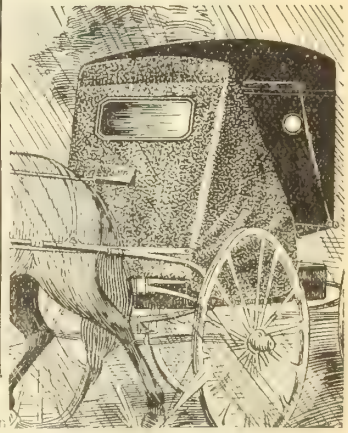
No. 40.....Per Set, List, $20.00. Retail, Per Set, $12.00
No. 52.....Per Set, List, 24.00. Retail, Per Set, 15.00

Shifts to fit any carriage or sleigh Best selected timber: ironed with Norway iron

Ironed, complete, in the white.....$6.50
Ironed, complete, painted 7.50



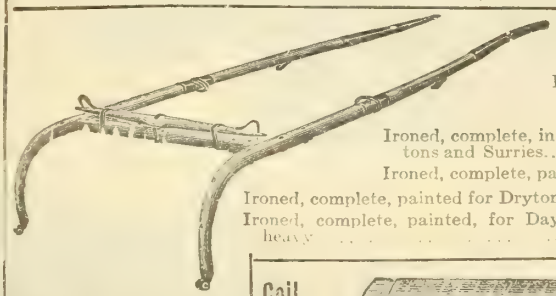
No. 1 Patent Shifting or Adjustable Pole.



The Blizzard Adjustable Storm Front

Will fit any buggy. It is held on by means of an elastic cord and two hooks at the top and an elastic cord and two hooks at the dash and a clamp at each side, which fastens to the bow like clothespin to a line; the sides can be opened or closed with gloves on. It closes up a buggy entirely and keeps out all rain or wind.

No. 4, 28 ounce Rubber....$3.75 No. 5, 22 ounce Rubber....$3.00

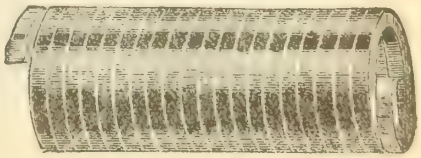


SHAFTS.

Ironed, complete, in the white, for Buggies.....$2.25
Ironed, complete, in the white for Daytons and Surries..... 2.75
Ironed, complete, painted, for Buggies, 3.25
Ironed, complete, painted for Drytons and Surries..... 3.50
Ironed, complete, painted, for Daytons and Surries, heavy 3.75

Solid Cut Axle Washers.

Coil Axle Washers



100 Washers in a box.

⅞ inch, per box.....20c. 1 inch, per box.....20c.

SOLID AXLE WASHERS.—5 sets in a box

⅞ inch, per box.....20c. 1⅛ inches, per box.....25c.
1 inch, per box.....20c. 1¼ inches, per box.....30c.
1 inch, per box.....25c.

Old Dominion Body Cart.

Somewhat similar [to the Farmers' Favorite No. 39, but cheaper in construction.

List, **$24.50.** Retail, **$14.00.**

No. 15 Body Cart.

Wheels, Sarven patent; four feet high, one inch tread. Gear—Double collar steel axle, one inch; coached; combination of large and small coil springs; adjusting irons for raising and lowering body to suit load. Body and Seat—Body, 27 inches wide; seat, 30 inches wide, with box underneath for holding parcels; size of parcel box, 24 x 14 x 5½ inches. Trimmings—Imitation of leather; cushion and back. Painting—Body black; gear, Brewster green. List, **$35.00.** Retail **$20.00.**

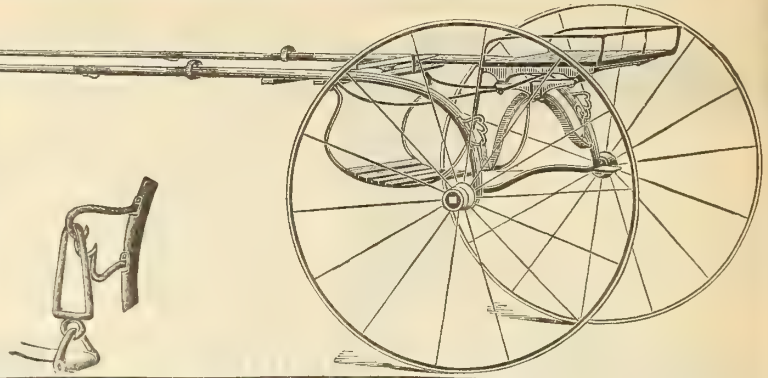
No. 39.

FARMERS' FAVORITE.

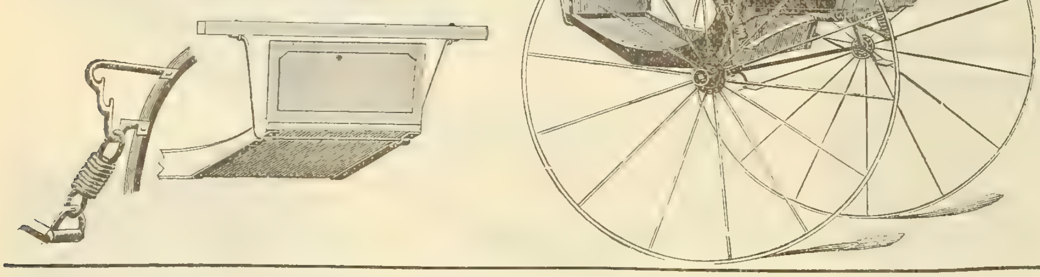
Sarven Wheels, one-inch Axle, Semi-Elliptic Springs, Painting, Dark Wine.

PRICE.

List **$27.00**
Retail **15.50**



No. 35 Body Cart.



No. 35 BODY CART.

Wheels, Sarven patent, four feet high; 1 inch tread. Gear, double collar, steel axle, 1 inch coached; four-leaf springs, combined with small coil springs; adjusting irons for raising or lowering body. Body, 27 inches wide; seat, 30 inches wide, with box underneath, 24x11x6 inches. Trimmings, imitation leather; spring cushion. Painting, body black; gear, Brewster green.

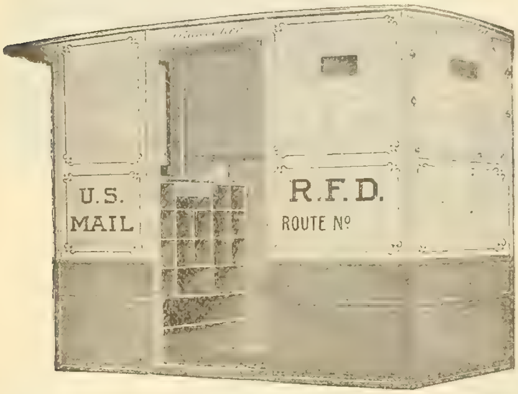
List, **$43.00.** Retail, **$24.00**

No. 0 BODY CART.

⅞ Wheels, 4 ft. high; 1 in. Axle, double collar, Steel Spring swings in Shackle; best Hickory Shafts. List, **$37.00.** Retail, **$21.00.**

"THE NEW STUDEBAKER" RURAL FREE DELIVERY WAGON.

Narrow Track, 4 ft. 8 in.; Wide Track, 5 ft.



Long distance axles, arched. Patent wheels. Body hung on Studebaker steel body loops. Duck sides; front and lower side panels wood, high rear end panels wood, with white duck roll-up curtain above; window light in rear side quarters and in rear curtain. Light in front hinged at top, made to swing in and fasten to roof. On top of the boxes is a folding shelf which can be used as a writing table. Sliding side doors with glass upper panel. Small wicket in lower panel of door through which mail can be delivered without opening the door. Wide seat with spring cushion with lazy back. Drawer under seat; also ample space beneath seat for packages. Loop steps and roller rub irons.

The front of the body is fitted with good sized pigeon holes or mail boxes made to slant downward and with screen back to prevent dirt and dust accumulating in the boxes; also several double size boxes to accommodate magazines or small packages. The lower space has a shelf for newspapers. Other fittings are a stamp drawer with lock, and an envelope and paper compartment under the drawer. This wagon is trim, neat looking, compact and serviceable, and in design and construction has been approved by several Rural Free Delivery Route Inspectors.

Painted in regulation U. S. Mail Wagon colors. Complete with shafts. Extra for pole or brake.

This wagon with its closed doors and one of our Clark's Carriage Heaters makes delivery of the mail in winter a comfortable pleasure.

Do not carry these wagons in stock. Sold only on special order.

No.	Size of Axle.	Hight of Wheels.		Size of Tire.	Outside dimensions of Bed.		With shafts, f. o. b. fatory.	With shafts, f. o. b. Balto.	Pole extra in place of shaft.
		Front.	Hind.		Length.	Width.			
5932	1 in.	3 ft. 4 in.	3 ft. 6 in.	⅞ in.	54 in.	32 in.	**$70.00**	**$76.00**	**$3.00**
5933	1⅛ in.	3 ft. 4 in.	3 ft. 6 in.	1 in.	54 in.	32 in.	**75.00**	**82.00**	

Pole in addition to shaft, **$6.50.** For Brake, **$6.00.**

DUPLEX SPRING WAGON.

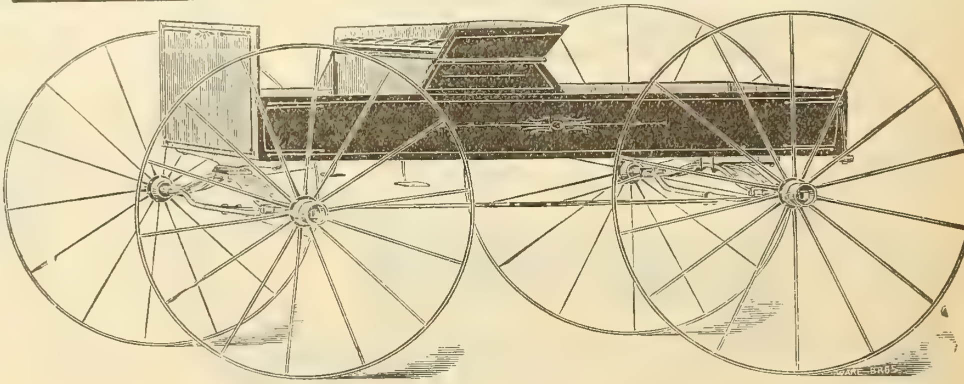
Axle, 1¼ in.; 1⅛ in. steel tire; body 7 ft. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 1000 lbs., **$45.00.**

Axle, 1 in.; 1 in. steel tire; body 6 ft. 6 in. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 600 to 800 lbs. One seat with cushion. **$42.50.**

We furnish Tops, Brakes, Two Seats and Lazy Backs with above wagons when ordered. Tops extra, **$17.00.** Brakes, **$3.00.**

All wheels dipped in boiling oil.

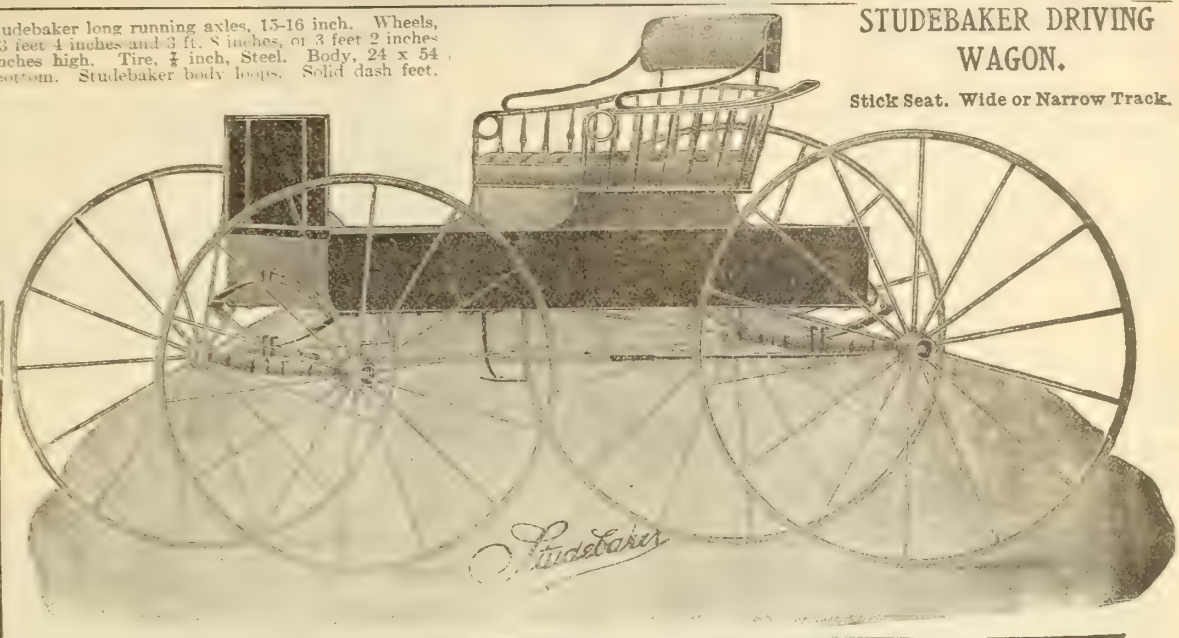
We are offering three Spring Wagons on same lines as above. 1⅛ in. Axle, **$47.50**; 1 in. Axle, **$45.00.**



S NO. 785½—Studebaker long running axles, 15-16 inch. Wheels, Sarven patent, 3 feet 4 inches and 3 ft. 8 inches, or 3 feet 2 inches and 3 feet 6 inches high. Tire, ¼ inch, Steel. Body, 24 x 54 inches on the bottom. Studebaker body loops. Solid dash feet. Body painted black; gear, dark green or carmine, with neat striping. Trimmings cloth, leather or whipcord. Complete with shafts and quick change couplings. Price, **$70.00.**

STUDEBAKER DRIVING WAGON.

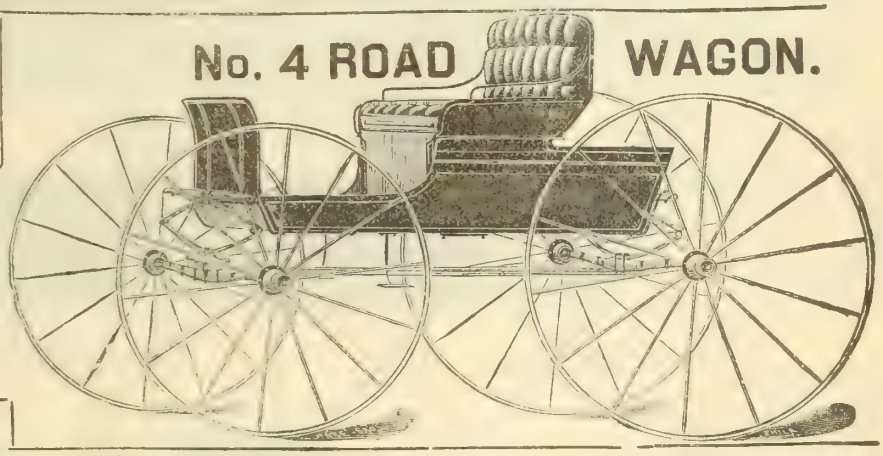
Stick Seat. Wide or Narrow Track.



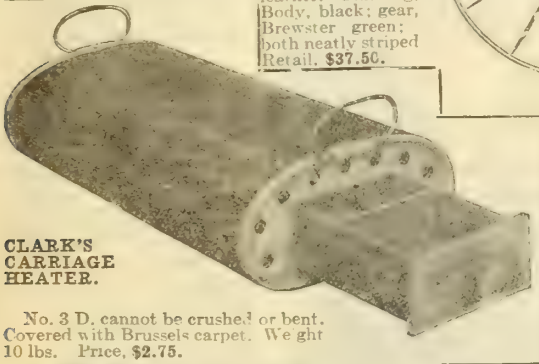
No. 3 Driving Wagon.

Wheels—Extra selected hickory; Sarven patent or compressed band; ¼ inch round-edge steel tire, bolted at every spoke. Gear—Double-Collar Steel Axle, 1⅛ inch, fantail and swedged 36-inch four-leaf graded steel springs. Body—Ash sills and poplar panels, size, 24x54 inches; full length steel body loops; wrought steps, with rubber pads. Seat—Size of bottom, 17x28 inches polished beveled edged back. Trimmings—Leather dash; full-length tapestry carpet; cushion and back, whipcord or leather; leather extra. Painting—Body, black; gear, Brewster green or carmine, neatly striped. Retail, **$55.00.**

No. 4 ROAD WAGON.

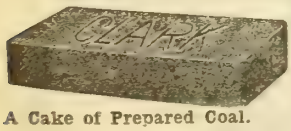


Wheels—Sarven patent; ¾ tread, with round edge steel tire. Gear—Double-Collar Steel Axle; 15-16 inch; fantail and swedged; three-leaf 34-inch Spring; axles bedded and reaches ironed. Body—Size, 49x24 inches on bottom; round corners and concave seat risers; steel body loops. Seat—Size, 16x27 inches, with detachable panel back. Trimmings—Leather dash; carpet in bottom; cushion and back green cloth or imitation of leather. Painting, Body, black; gear, Brewster green; both neatly striped Retail, **$37.50.**



CLARK'S CARRIAGE HEATER.

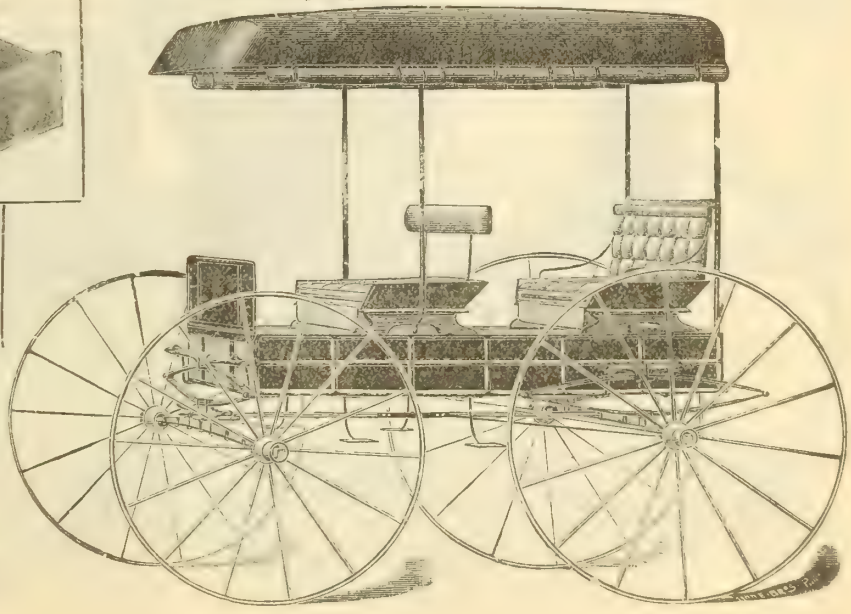
No. 3 D. cannot be crushed or bent. Covered with Brussels carpet. Weight 10 lbs. Price, **$2.75.**



A Cake of Prepared Coal.

One cake will last 15 to 16 hours. No smoke, odor, flame or gas. Price, case of 1 doz. cakes, **75c.**

No. 4 DAYTON.



Length of body 5 feet 10 inches, width 2 feet 10½ inches, frame and seats best white ash; panels best No. 1 poplar. Wheels: 3 ft. 9 in. and 3 ft. 5 in. high; 1 1-16 inch spoke; Warner or shell band; 1x¼ inch steel tire; 1 1-16 inch steel axle, front spring 1⅜ inch, 4 ply; two back springs 1½ inch, 4 ply, oil tempered; gear best white hickory; cushions trimmed either leather or cloth; curtains 24 ounces, green back, gum; finished natural wood or painted as desired; hung on Brewster springs.

PRICE.

List $110.00
Retail..... 60.00

Can also furnish with duplex or side bar at same price.

Elliptic Spring Izzer Buggy

Wide or Narrow Track.

No. 422.—Studebaker long running axles, 1⅛ inch. Wheels, Sarven patent, 3 feet 6 inches and 3 feet 10 inches high. Tire, 1 inch. Body, 26 x 56 inches on bottom. Solid dash feet. Studebaker body loops or spring bars. Trimmed in cloth, whipcord or leather. Regular top is four bow, with leather quarters, leather back stays and leather back curtain, with rubber roof and rubber side curtains. Sides of seat lined. We can furnish rubber top when desired. Body painted black; gear, dark green or carmine, neatly striped. Complete with shafts, quick change couplings and boot.

Leather Quar. Top and Leather Roof, List Price, **$128.00.** Retail Price, **$90.00.**

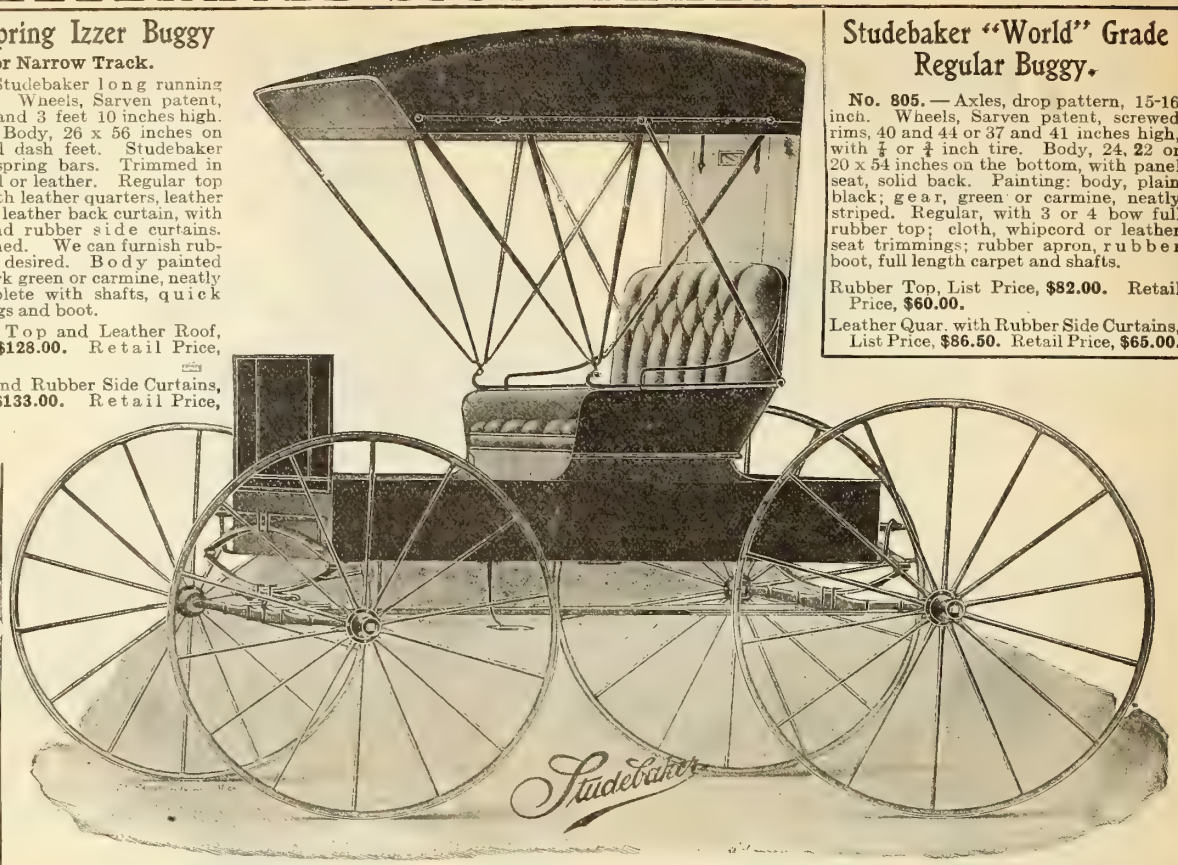
Leather Top and Rubber Side Curtains, List Price, **$133.00.** Retail Price, **$94.00.**

Studebaker "World" Grade Regular Buggy.

No. 805.—Axles, drop pattern, 15-16 inch. Wheels, Sarven patent, screwed rims, 40 and 44 or 37 and 41 inches high, with ¾ or ⅞ inch tire. Body, 24, 22 or 20 x 54 inches on the bottom, with panel seat, solid back. Painting: body, plain black; gear, green or carmine, neatly striped. Regular, with 3 or 4 bow full rubber top; cloth, whipcord or leather seat trimmings; rubber apron, rubber boot, full length carpet and shafts.

Rubber Top, List Price, **$82.00.** Retail Price, **$60.00.**

Leather Quar. with Rubber Side Curtains, List Price, **$86.50.** Retail Price, **$65.00.**



Baltimore Single Leaf End Spring Buggy.

Similar in appearance to above cut.

Furnished in wood crossbars or Bailey Loop Hanger.

For ease of riding and general comfort it is not excelled by any other style.

Axles, ⅞ inch double collar steel; Warner or Sarven wheels, No. 1 quality, ¾ or ⅞ inch tread; tire bolted between every spoke; body 22 inches wide; seat regular width; nickel hub bands; nickel prop nuts; trimmed in leather. A great favorite in the South.

PRICE

Rubber Top, List Price, **$95.00**; Retail Price, **$52.50.**

Leather Quarter, List Price, **$100.00**; Retail Price, **$55.00.**

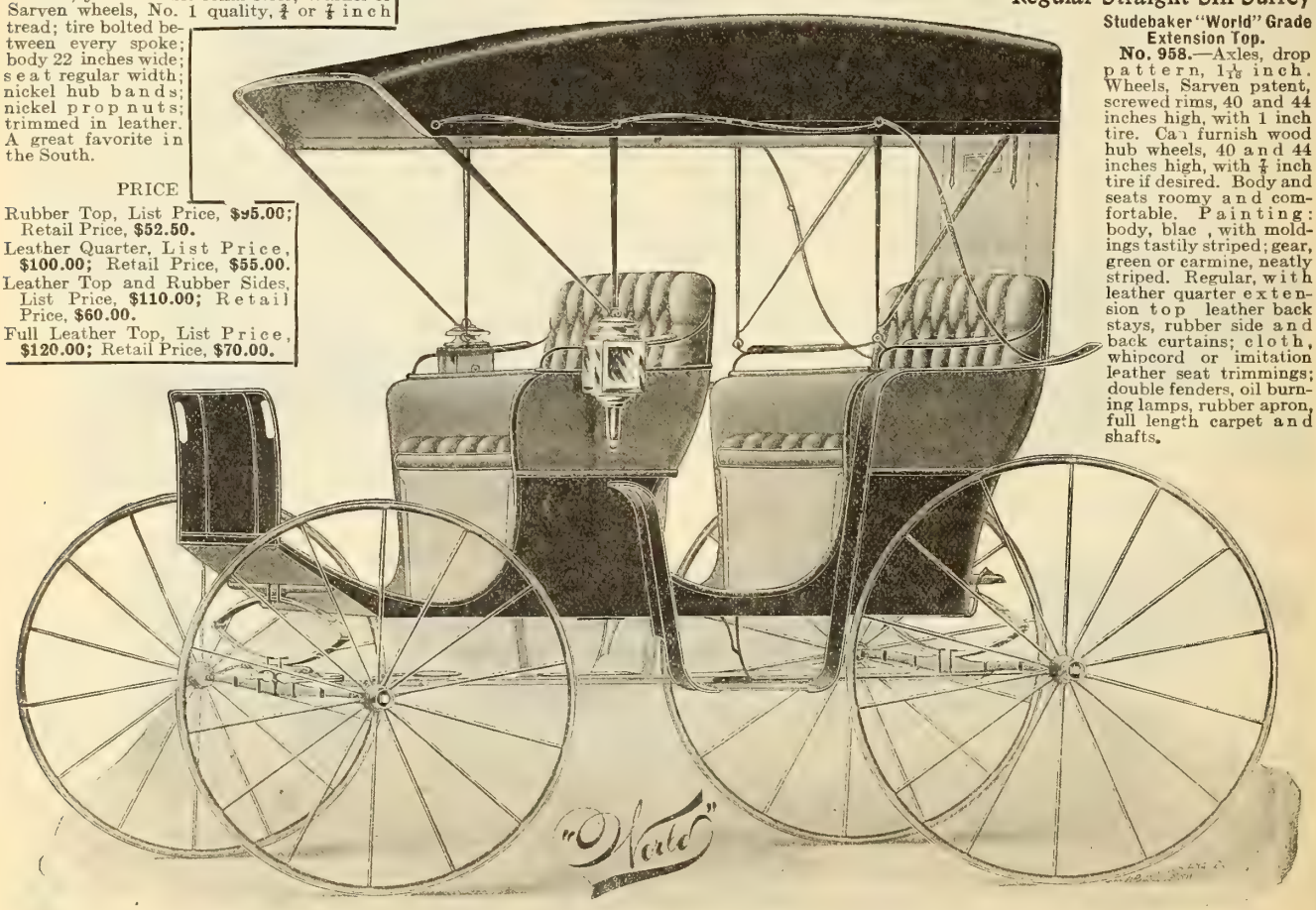
Leather Top and Rubber Sides, List Price, **$110.00**; Retail Price, **$60.00.**

Full Leather Top, List Price, **$120.00**; Retail Price, **$70.00.**

Regular Straight Sill Surrey

Studebaker "World" Grade Extension Top.

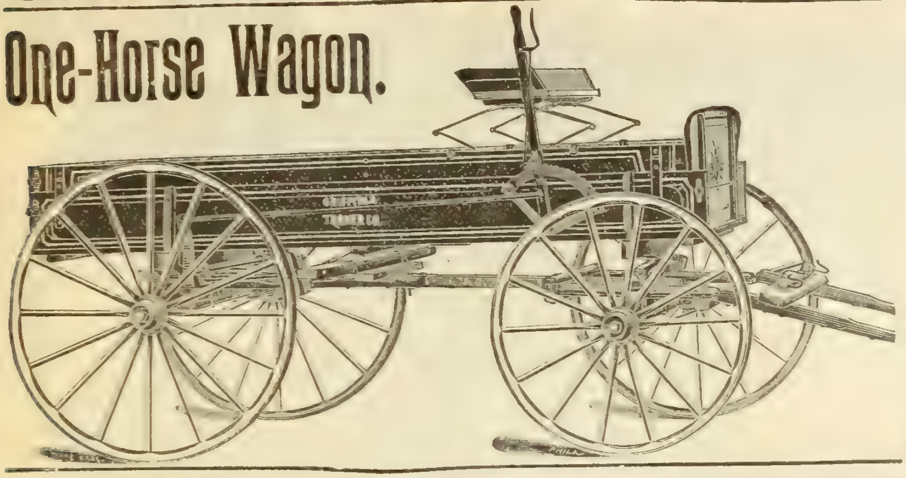
No. 958.—Axles, drop pattern, 1⅛ inch. Wheels, Sarven patent, screwed rims, 40 and 44 inches high, with 1 inch tire. Can furnish wood hub wheels, 40 and 44 inches high, with ⅞ inch tire if desired. Body and seats roomy and comfortable. Painting: body, black, with moldings tastily striped; gear, green or carmine, neatly striped. Regular, with leather quarter extension top leather back stays, rubber side and back curtains; cloth, whipcord or imitation leather seat trimmings; double fenders, oil burning lamps, rubber apron, full length carpet and shafts.



List Price, with shafts, **$160.00.** Retail Price, with Shafts, **$112.00.** List Price with Pole instead of shafts, **$163.50.** Retail Price, with Pole instead of shafts. **$114.50.**

GRIFFITH ⚜ AND ⚜ TURNER ⚜ WAGONS.

One-Horse Wagon.



ONE-HORSE WAGON.

No. 20—Size Steel Axle, 1⅜; Size Tub'l'r Axle, 1⅝ x 6½; Size Tire, 1⅜ x 5-16; Capacity, 1500 to 1800 lbs.

	Price.
Without Brake	$37.00
With Gear Brake	40.00
Gear only, no Brake	33.00
Gear only, with Brake	36.00

G. & T. ONE-HORSE WAGONS.

Are the bets on the market for the money.

One-Horse Wagon, without Brake	$32.00
One-Horse Wagon, with Gear Brake	35.00
One-Horse Wagon, gear only, without Brake	28.00
One-Horse Wagon, gear only, with Brake	31.00
Tongue	5.00
Bodies	7.50

Special Discount for Cash.

Solid Steel & Tubular Steel Axle Wagons.

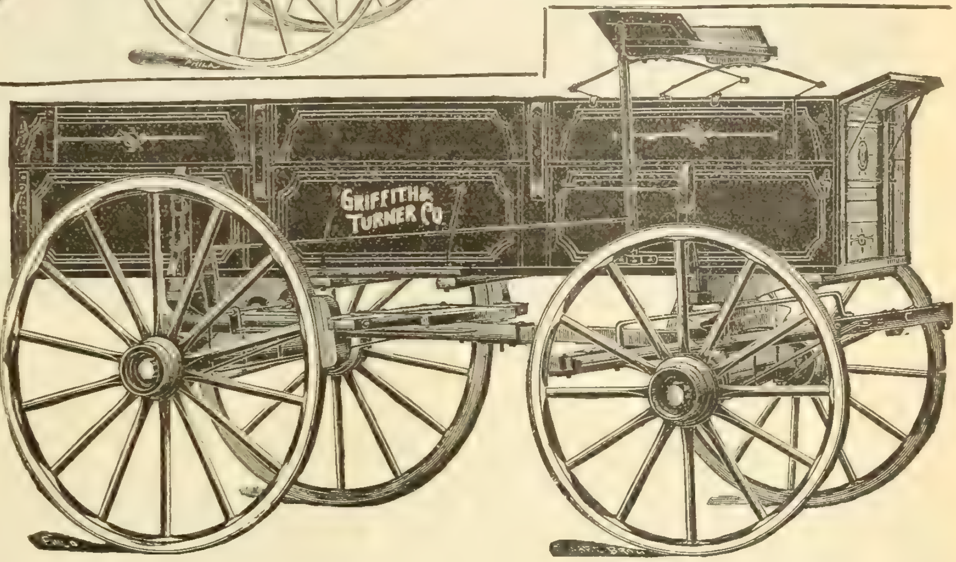
These Wagons are all heavily ironed and braced, and for use in rough and hilly country they are specially adapted, being exceptionally strong. The wheels are dipped in **Boiling Oil,** and the round-edge tire is used for the protection of felloes and paint. They are one of the lightest-running Wagons made. There is an increasing demand in sandy countries for steel-axle Wagons, and our trade in this style has grown immensely.

The prices include Whiffletrees, Wrench, Stay Chains, Tongue Chains' Box, Top Box, Spring Seat and Gear.

All Wagons will be arranged with Shafts for one horse instead of Tongue when ordered at same price.

Note prices on brakes.

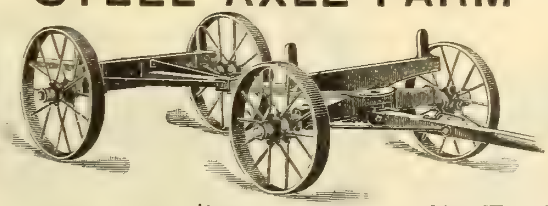
Special Discount for Cash.



Nos.	Size of Steel Axle.	Size of Tub'l'r Axles.	Size of Tires.	Height of Wheels. Front.	Rear.	Dimensions of Body. Length.	Width.	Depth.	Wght.	Capacity.	Wagon complete, no brakes.	Wagon complete, with brakes.	Gears only, with brakes.	Gears only, no brakes.
21..	1½	1⅞x 8	1⅜x7-16	3 ft. 6 in.	4 ft. 0 in.	9 ft. 6 in.	3 ft. 6 in.	12 6 in.	.....	2,000 to 2,500	**$50.25**	**$53.75**	**$47.75**	**$44.00**
22..	1⅝	2⅛x 8	2 x½	3 ft. 6 in.	4 ft. 2 in.	10 ft. 6 in.	3 ft. 6 in.	12 6 in.	900	2,500 to 3,000	**61.25**	**65.75**	**59.75**	**55.00**
23..	1¾	2⅜x 9	2 x⅝	3 ft. 6 in.	4 ft. 2 in.	10 ft. 6 in.	3 ft. 6 in.	12 8 in.	1,000	3,000 to 3,500	**64.50**	**69.50**	**61.25**	**57.50**
24..	2	2⅝x10	2 x¾	3 ft. 6 in.	4 ft. 2 in.	10 ft. 6 in.	3 ft. 6 in.	14 8 in.	1,200	4,000 to 4,500	**69.50**	**74.25**	**65.00**	**60.50**
25..	2¼	2⅞x11	3 x¾	3 ft. 6 in.	4 ft. 2 in.	Running Gear.			1,200	6,000	**81.50**	**87.50**	**78.50**	**74.00**
26..	2½	3⅛x12	3 x¾	3 ft. 6 in.	4 ft. 2 in.	Running Gear.			.....	8,000	....	....	**85.00**	**80.50**

For Tires wider than above on Nos. 22 and 23, add **$4.50** per inch; on Nos. 24, 25 and 26, add **$5.50** per inch. Rear Brake, extra, **$4.50.**

"HANDY" STEEL AXLE FARM WAGON.



Wheels, 28x4 and 34x4, with staggard spokes

Price	$36.00
Brake	4.00
Neck Yokes	.75
Doubletrees	2.00

Capacity, 5000 pounds.

Bolsters are made of good white oak, with cast sockets bolted on side, so stakes are movable.

We make reach of white oak, 4x2½ inches by 12 feet long, adjustable for the ordinary wagon box, or hay ladders 16 feet long.

Axles solid steel 1¾ inches, fastened on the bottom of a grooved white oak piece 3x5 inches, with steel clips. On the end of oak piece we bolt cast collar or sand band; improved linch pin.

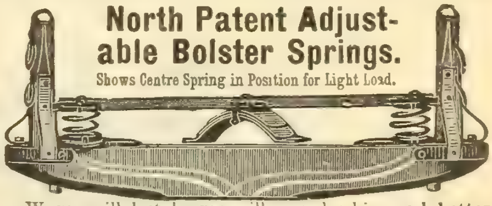
We make the Standard Gauge 5 feet from centre to centre of tires; 3 feet 6 inches between standards. Narrow Gauge 4 feet 6 inches from centre to centre of tires; 3 feet 2 inches between standards.

State if Standard or Narrow Gauge Wanted.

Doubletree, Neck Yoke and Brake are extra.

North Patent Adjustable Bolster Springs.

Shows Centre Spring in Position for Light Load.

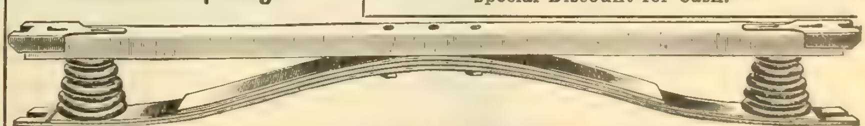


Wagon will last longer, will carry load in much better condition, particularly fruit or produce.

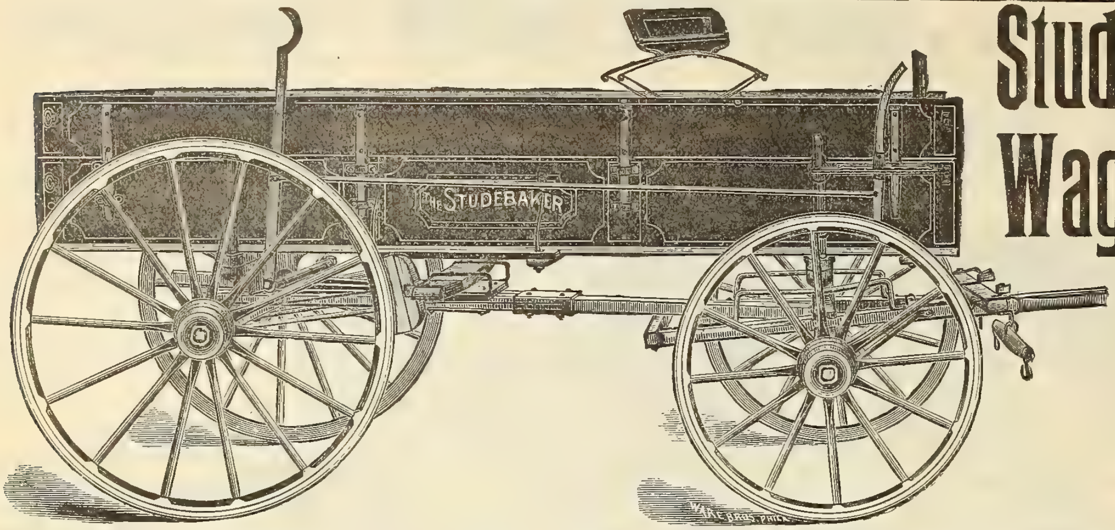
To carry 1000 lbs.	**$4.00**	To carry 4000 lbs.	**$10.00**
To carry 1500 lbs.	**6.00**	To carry 5000 lbs.	**11.00**
To carry 2000 lbs.	**7.00**	To carry 6000 lbs.	**12.00**
To carry 3000 lbs.	**8.00**		

Special Discount for Cash.

The Common Sense Bolster Spring.



To carry 1000 lbs.	Per set, **$5.00**	To carry 4000 lbs.	Per set **$ 8.00**
To carry 1500 lbs.	Per set, **5.50**	To carry 5000 lbs.	Per set **9.00**
To carry 2000 lbs.	Per set, **6.00**	To carry 6000 lbs.	Per set, **10.00**
To carry 2500 lbs.	Per set, **6.50**	To carry 8000 lbs.	Per set, **11.00**
To carry 3000 lbs.	Per set, **7.00**	To carry 10000 lbs.	Per set, **12.00**



Studebaker Wagons.

Special Steel Skein Farm Wagon for Maryland and Pennsylvania.

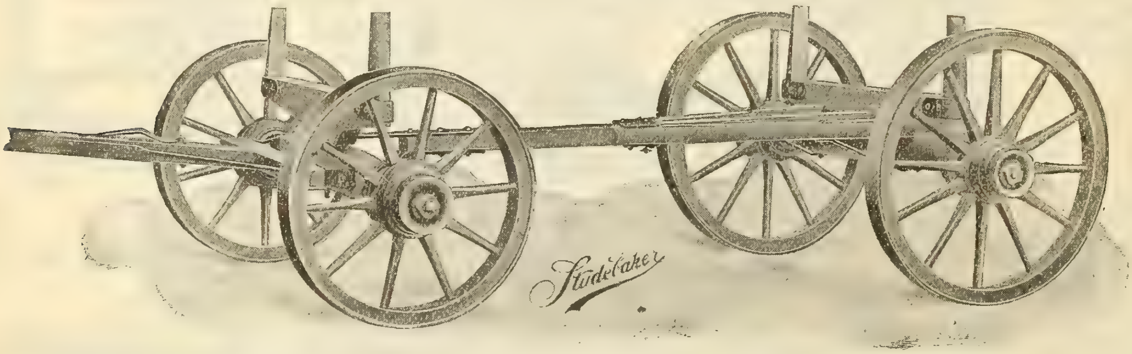
No.	Size of Skeins.	Height of Wheels.				Size of Tire.	Dimensions of Box.				Approximate.		Prices.	
		Front.		Hind.			Lower.	Top.	Length.		Weight.	Capacity.	Gear only.	With brake.
	Inches.	Ft.	In.	Ft.	In.	Inches.	Inches.	Inches.	Ft.	In.	Lbs.	Lbs.	List Price.	Ret'l Price.
27	3½ x 11	3	8	4	6	4 x ⅝	13	8	11	6	1300	5000	**$122.00**	**$79.50**
28	3¾ x 12	3	8	4	6	4 x ¾	14	10	11	6	1575	6500	**147.50**	**96.00**
29	4 x 12	3	8	4	6	4 x ⅞	14	10	11	6	1650	8500	**183.50**	**119.50**

Special Discount for Cash.

STANDARD THIMBLE SKEIN FARM WAGON.

No.	Size of Skeins.	Height of Wheels.				Size of Tire.	Dimensions of Box.				Approximate.		Wagon complete.		Wagon complete no brake.		Gear only with brake.		Gear only. no brake.	
		Front.		Hind.			Lower	Top.	Length.		Weight.	Capacity	List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
	In.	Ft.	In.	Ft.	In.	In.	In.	In.	Ft.	In.	Lbs.	Lbs.								
2	2¾ x 8	3	8	4	4	1½ x 9/16	12	8	10	0	850	2000	**$92.50**	**$64.75**	**$84.00**	**$59.00**	**$71.50**	**$50.00**	**$65.00**	**$45.50**
2	2¾ x 8	3	8	4	4	2 x 7/16	12	8	10	0	850	2000	**96.00**	**67.25**	**87.50**	**61.25**	**75.00**	**52.50**	**68.50**	**48.00**
2	2¾ x 8	3	8	4	4	2½ x 7/16	12	8	10	0	850	2000	**99.00**	**69.50**	**90.50**	**63.50**	**78.00**	**54.50**	**71.50**	**50.00**
2	2¾ x 8	3	8	4	4	3 x ⅜	12	8	10	0	850	2000	**100.50**	**70.50**	**92.00**	**64.50**	**79.50**	**55.75**	**73.00**	**51.25**
3	3 x 9	3	8	4	6	1½ x ⅝	13	8	10	6	1000	3500	**99.00**	**69.50**	**90.00**	**63.50**	**76.00**	**53.25**	**69.00**	**48.50**
3	3 x 9	3	8	4	6	2 x ½	13	8	10	6	1000	3500	**102.00**	**71.50**	**93.50**	**65.50**	**79.00**	**55.50**	**72.00**	**50.50**
3	3 x 9	3	8	4	6	2½ x ½	13	8	10	6	1000	3500	**106.00**	**74.25**	**97.50**	**68.25**	**83.00**	**58.25**	**76.00**	**53.25**
3	3 x 9	3	8	4	6	3 x ½	13	8	10	6	1000	3500	**109.00**	**76.50**	**100.00**	**70.00**	**86.00**	**60.25**	**79.00**	**55 50**
4	3¼ x 10	3	8	4	6	1½ x ¾	14	10	10	6	1100	4000	**102.00**	**71.50**	**93.00**	**65.50**	**78.00**	**54.50**	**71.00**	**49.75**
4	3¼ x 10	3	8	4	6	2 x ⅝	14	10	10	6	1100	4000	**105.50**	**74.00**	**96.50**	**67.50**	**81.50**	**57.00**	**74.50**	**52.25**
4	3¼ x 10	3	8	4	6	2½ x ½	14	10	10	6	1100	4000	**109.00**	**76.50**	**100.00**	**70.00**	**85.00**	**59.50**	**78.00**	**54.50**
4	3¼ x 10	3	8	4	6	3 x ½	14	10	10	6	1100	4000	**112.00**	**78.50**	**103.00**	**72.50**	**88.00**	**61.75**	**81.00**	**56.75**
5	3½ x 11	3	8	4	6	1⅝ x ¾	16	12	10	6	1250	5000	**110.50**	**77.50**	**100.00**	**70.00**	**84.50**	**59.25**	**76.00**	**53.50**
5	3½ x 11	3	8	4	6	3 x 9/16	16	12	10	6	1250	5000	**121.50**	**85.00**	**111.00**	**77.75**	**95.50**	**66.75**	**87.00**	**61.00**

STUDEBAKER'S FARMERS' HANDY TRUCK.



This truck is especially adapted to farm or orchard work, but can be readily utilized for transfer work by adding a suitable platform. The reach is long enough to couple out for a 16-foot rack or box. The bolsters are made with wrought iron sockets and removable wood standards.

We believe the wood hub wheels to be stronger and of longer life than the steel wheels, but will if desired furnish steel wheels at the same price.

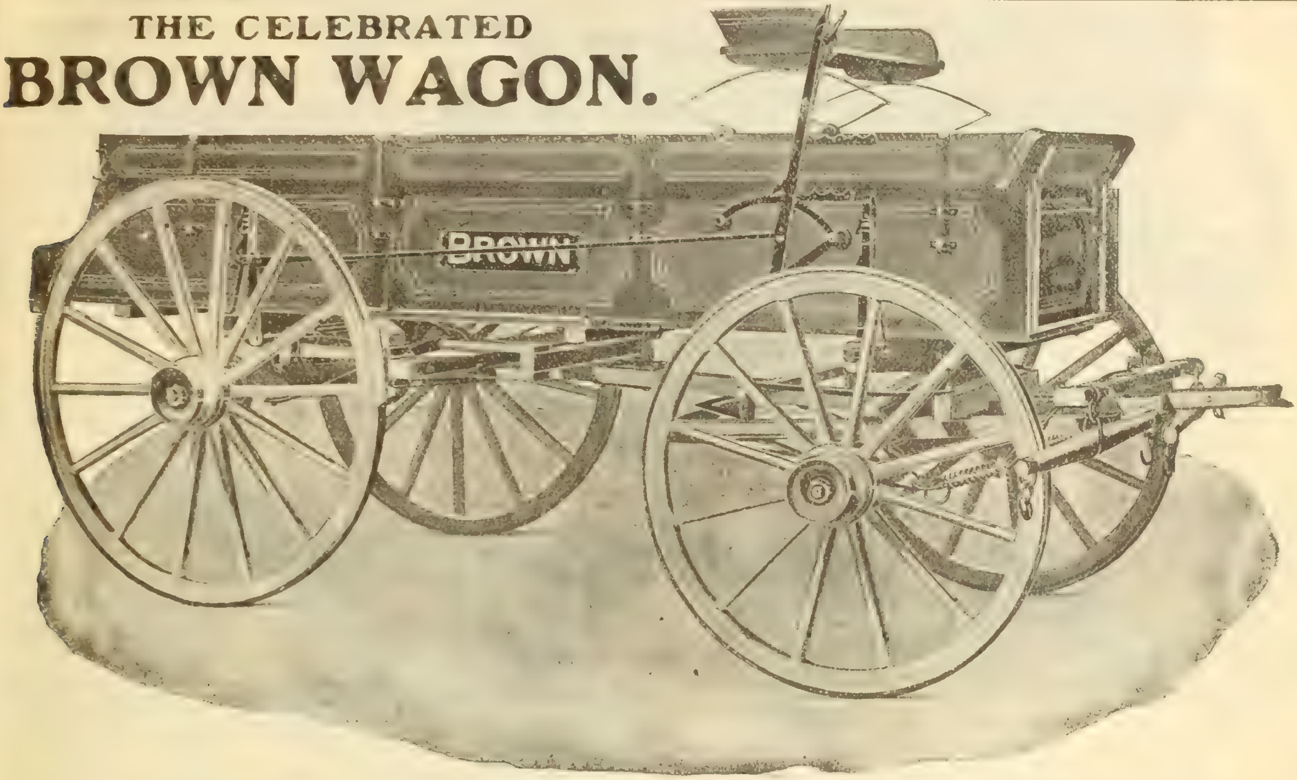
NOTE:—We will ship wood wheels unless otherwise specified.

No.	Size of Cast Skein.	Height of Wheels.		Size of Tire.	Approximate.		List Price.	Retail Price.
		Front.	Hind.		Weight.	Capacity.		
8228	3¼ x 10″	30″	36″	4 x ⅜″	680 lbs.	4000 lbs.	**$45.00**	**$31.50**

Can furnish above in either wood or steel wheels, but price does not include either whiffletrees or neck yokes.

THE CELEBRATED

BROWN WAGON.



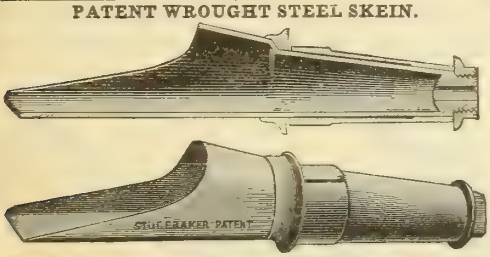
No.	Size of Cast Skein.	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Regular depth of bottom box.	Regular depth of top box.	Regular length of bed inside.	Capacity, lbs.	Wagon complete. List Price.	Wagon complete. Retail Price.	Wagon complete no brake. List Price.	Wagon complete no brake. Retail Price.	Gear only with brake. List Price.	Gear only with brake. Retail Price.	Gear only no brake. List Price.	Gear only no brake. Retail Price.
00	2¾ x 8½	3′ 8″	4′ 4″	1½ x 9/16	14″	6″	9½″	2500	**$103.68**	**$72.50**	**$95.00**	**$66.50**	**$81.68**	**$57.25**	**$72.96**	**$51.00**
00	2¾ x 8½	3′ 8″	4′ 4″	2½ x ⅝	14″	6″	9½″	2500	**111.35**	**78.00**	**102.73**	**72.00**	**89.28**	**62.50**	**80.64**	**56.50**
00	2¾ x 8½	3′ 8″	4′ 4″	3 x ⅝	14″	6″	9½″	2500	**115.20**	**80.75**	**106.56**	**74.50**	**93.12**	**65.25**	**84.45**	**59.25**
1	3 x 9	3′ 8″	4′ 4″	1½ x ⅝	15″	6″	9½″	4000	**107.52**	**75.25**	**98.88**	**69.25**	**85.44**	**59.75**	**76.80**	**53.75**
1	3 x 9	3′ 8″	4′ 4″	2½ x ⅝	15″	6″	9½ ″	4000	**115.20**	**80.50**	**106.56**	**74.75**	**93.12**	**65.25**	**84.48**	**57.25**
1	3 x 9	3′ 8″	4′ 4″	3 x ⅝	15″	6″	9½ ″	4000	**119.04**	**83.50**	**110.40**	**77.25**	**96.90**	**68.00**	**88.32**	**62.00**
2	3¼ x 10	3′ 8″	4′ 4″	1⅝ x ⅝	16″	8″	10 ″	4500	**111.37**	**78.00**	**102.72**	**72.00**	**89.28**	**62.50**	**80.64**	**56.50**
2	3¼ x 10	3′ 8″	4′ 4″	2½ x ⅝	16″	8″	10 ″	4500	**118.08**	**82.75**	**109.44**	**76.75**	**96.00**	**67.25**	**87.36**	**61.25**
2	3¼ x 10	3′ 8″	4′ 4″	3 x ⅝	16″	8″	10 ″	4500	**120.96**	**84.75**	**112.32**	**78.75**	**98.88**	**69.25**	**90.24**	**63.25**
3	3½ x 11	3′ 8″	4′ 4″	1¾ x ¾	16″	10″	10″	5500	**117.12**	**82.00**	**108.48**	**76.00**	**95.04**	**66.50**	**86.40**	**60.50**
3	3½ x 11	3′ 8″	4′ 4″	3 x ¾	16″	10″	10 ″	5500	**130.56**	**91.50**	**121.92**	**85.50**	**108.48**	**76.00**	**99.84**	**70.00**
3	3½ x 11	3′ 8″	4′ 4″	4 x ¾	16″	10″	10 ″	5500	**140.10**	**98.25**	**131.52**	**92.00**	**118.08**	**82.75**	**109.44**	**76.75**

SPECIAL STEEL SKEIN, LYNCH PIN GEARS, 4-INCH TIRES.

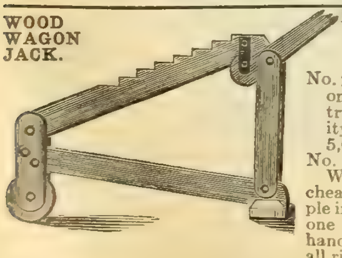
No.	Size of Cast Skein.	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Regular depth of bottom box.	Regular depth of top box.	Regular length of bed inside.	Capacity, lbs.	Wagon complete. List Price.	Wagon complete. Retail Price.	Wagon complete no brake. List Price.	Wagon complete no brake. Retail Price.	Gear only with brake. List Price.	Gear only with brake. Retail Price.	Gear only no brake. List Price.	Gear only no brake. Retail Price.
3	3½ x 11	3′ 8″	4′ 4″	4 x ¾	16″	10″	10′	5500	**$146.88**	**$95.75**	....	....	**$124.80**	**$81.25**	....	....
4	3¾ x 12	3′ 8″	4′ 4″	4 x ⅞	18″	12″	10′	6500	**164.00**	**106.75**	....	....	**140.00**	**91.25**	....	....
5	4 x 12	3′ 8″	4′ 4″	4 x 1	18″	12″	10′	7500	**175.00**	**114.00**	....	....	**151.68**	**98.75**	....	....

Special Discount for Cash.

PATENT WROUGHT STEEL SKEIN.



WOOD WAGON JACK.



No. 1—Adapted for buggies or light work. Capacity, 2,000 lbs...**$1.00**

No. 2—For heavy wagons, transfer wagons trucks, etc. Capacity from 3,000 to 5,000 lbs...... **1.25**

No. 3.......... **1.75**

It is made in three sizes.

We also have a cheap Jack, very simple in construction, but one which is easily handled, and which is all right for light work. Price, **50**c.

Eureka Wagon Jack.

Made of steel and malleable iron. Light, strong and durable. Adjustable to any height of wagon. Specially adapted to light vehicles of all kinds. Double acting dogs, one raises the other holds. Price, **$1.25.**

WAGON SEATS.

List Price.......**$5.00** Retail Price.....**$3.50**

GEAR BRAKES.

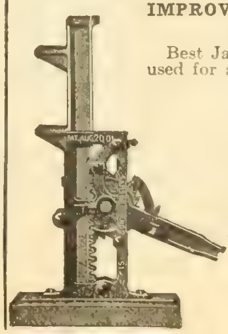
List Price.......**$9.00** Retail Price.....**$6.50**

BROWN AND STUDEBAKER WAGON SKEINS.

Send kind of wagon and size of skein wanted. Prices on application.

IMPROVED SAMPSON JACK,

Malleable Iron.



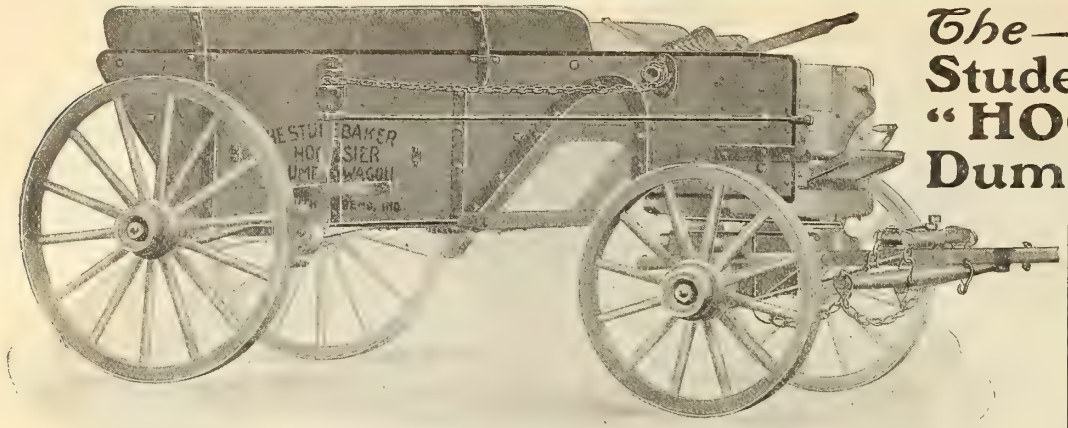
Best Jack on the market. Can be used for any height axle. Standard cannot drop back on cogs when raised to extreme height. No breaking of cogs and standards.

No. 1—Will raise vehicles weighing 2 tons...**$2.50**

No. 2—Will raise vehicles weighing 5 tons...**$3.25**

No. 2—Will raise vehicles weighing 5 tons, with drop hook **$3.50**

Can also furnish other Jacks. Prices on application.



The Studebaker "HOOSIER" Dump Wagon

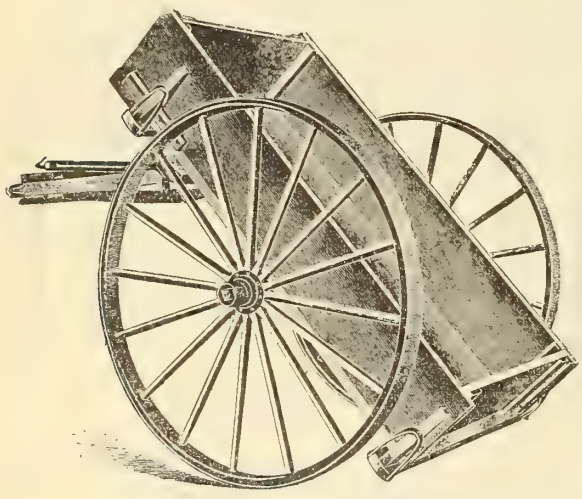
HOUND FRONT GEAR

WIDE TRACK

This wagon dumps from the bottom by means of an ingenious device operated by levers, without the necessity of driver leaving his seat. The bottom is closed with ease while driving from the dumping ground without stopping the team, and wagon is ready for reloading. It is furnished with hound front gear, with either drop or stiff tongue and oscillating fifth wheel, which will allow the front wheels on either side to drop into a depression in the roadway without disturbing the level of the body. Wood hub wheels. Patent truss skeins. Painting: gear, red; body, green. Complete with wings, neckyoke whiffletrees and wrench. Extras: Brake, Steel lining. Steel and asbestos lining.

No.	Size of Skeins.		Height of Wheels.		Size of Tire.	Capacity of Box.	List Price.	Retail Price.
	Front.	Hind.	Front.	Hind.				
	Inches.	Inches.	Inches.	Inches.	Inches.			
8210¾	3¼	3½	38	50	3½ x ½	2 Cubic Yards	$168.50	$125.00
					Extra for brake.....		16.50	12.50

SPECIAL DISCOUNT FOR CASH.



LIGHT HANDY FARM CART.

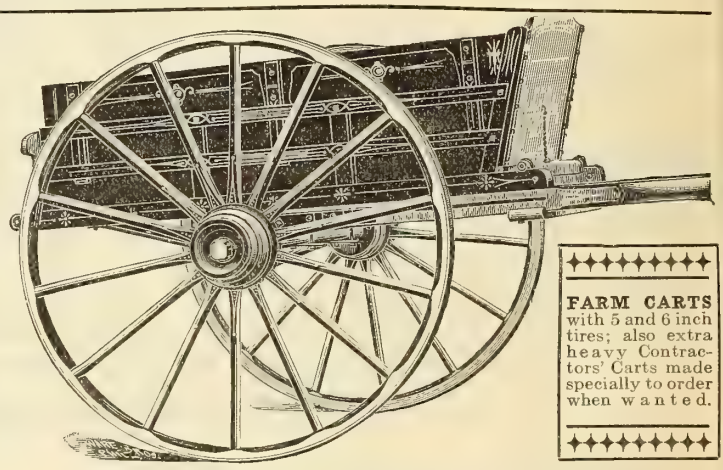
Axles, 1¼ steel; wheels, Sarvin Patent, 50 in. diameter; 3-inch tires; bed, 3 ft. 2 in. x 6 ft. 10 in.; measurement inside box, 3 ft. x 6 ft. 4 in.

This is a very convenient Cart for farm or garden.

It dumps quickly, turns anywhere, handles all kinds of farm produce. One horse and a boy will do as much work with this cart as a man and team. It has stout fifty-inch wheels with wide tires, and a steel axle, maple platform and oak thills.

You can fill the Cart with potatoes, apples or other farm produce, and dump it into cellar or pit without handling. Also convenient for spraying rig and many other purposes. Weight, complete, 320 lbs.

Price with Shafts or Pole.....**$30.00**



FARM CARTS with 5 and 6 inch tires; also extra heavy Contractors' Carts made specially to order when wanted.

Farm and Contractor's CART.

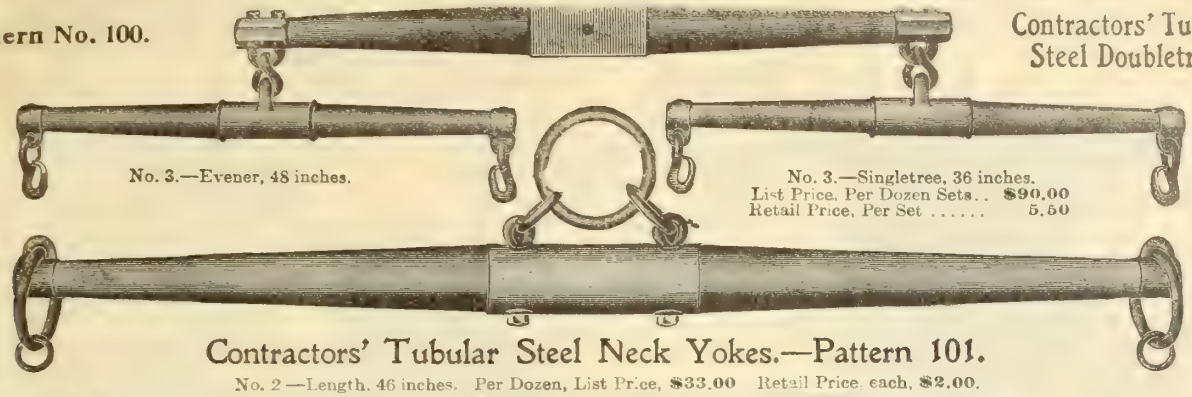
These Carts are very strong, heavily ironed, nicely painted, striped and varnished. They are specially adapted for use by farmers and contractors. Incorporated in these Carts are all of the best features of the old-style farm cart, even to the trap stick, which we retain, considering it far ahead of any of the patent devices. In consequence of these points we have now unquestionably the best article of its kind ever introduced. We have sold these carts more or less extensively throughout Maryland, Virginia, Pennsylvania, New York, New Jersey, North Carolina and other parts of the South, and, judging from our largely increasing trade, we are prepared to say that it is **Just the Cart Needed.** It has been our sole aim to have nothing but the best.

Size of Axle.	Size of Tires.	Diam. of Wheels.	Price.
1¼ inches	2 inches	4 ft. 10 in.	$33.00
1¼ inches	3 inches	4 ft. 10 in.	36.00
1½ inches	4 inches	4 ft. 10 in.	40.00
2 inches	2 inches	4 ft. 10 in.	41.00
2 inches	3 inches	4 ft. 10 in.	42.00
2 inches	4 inches	4 ft. 10 in.	46.00

SPECIAL DISCOUNT FOR CASH.

Pattern No. 100.

Contractors' Tubular Steel Doubletree.

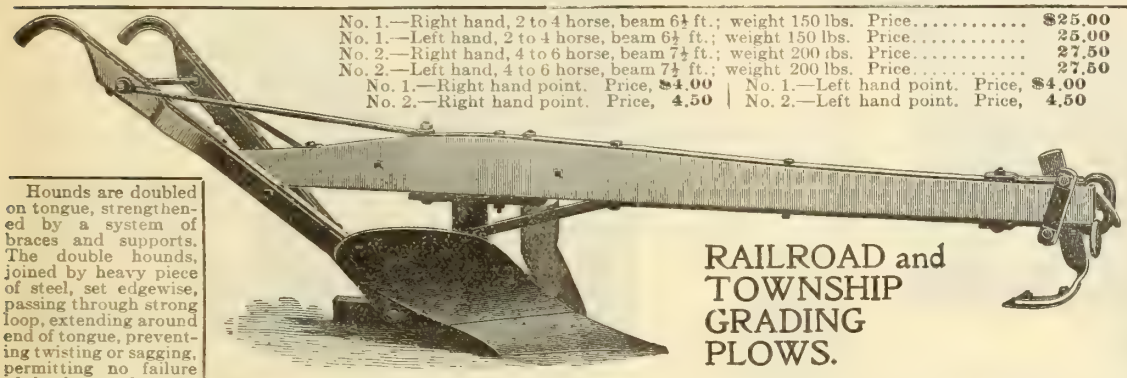


No. 3.—Evener, 48 inches.

No. 3.—Singletree, 36 inches.
List Price, Per Dozen Sets.. $90.00
Retail Price, Per Set 5.50

Contractors' Tubular Steel Neck Yokes.—Pattern 101.

No. 2—Length, 46 inches. Per Dozen, List Price, $33.00 Retail Price each, $2.00.



No. 1.—Right hand, 2 to 4 horse, beam 6½ ft.; weight 150 lbs. Price..... $25.00
No. 1.—Left hand, 2 to 4 horse, beam 6½ ft.; weight 150 lbs. Price..... 25.00
No. 2.—Right hand, 4 to 6 horse, beam 7½ ft.; weight 200 lbs. Price..... 27.50
No. 2.—Left hand, 4 to 6 horse, beam 7½ ft.; weight 200 lbs. Price..... 27.50

No. 1.—Right hand point. Price, $4.00 | No. 1.—Left hand point. Price, $4.00
No. 2.—Right hand point. Price, 4.50 | No. 2.—Left hand point. Price, 4.50

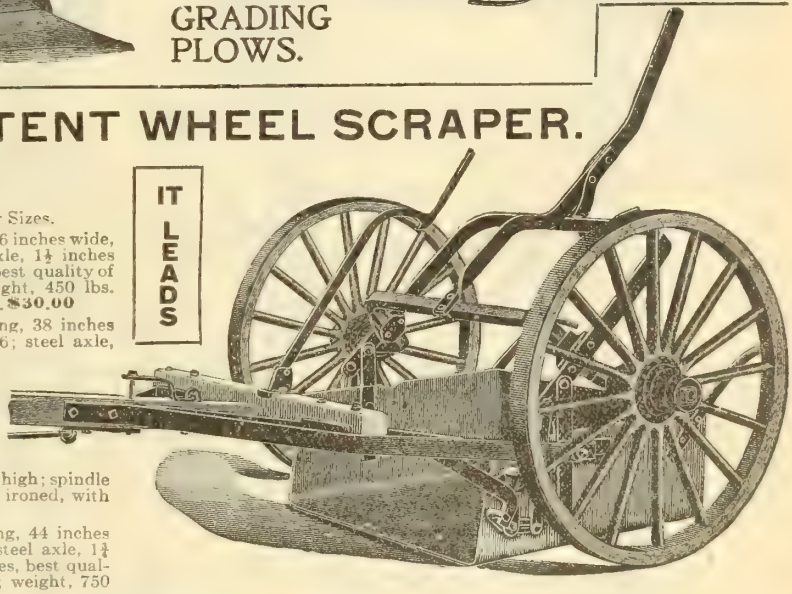
Our Railroad and Township Grading Plows cut narrow and deep furrows, and are of light draft. Strong beams, handles and standards—all parts well braced. Mouldboards, landsides and points made alike and interchangeable Points put on with five-eighths bolt, and easily taken off and replaced. Plows scour well in all kinds of soil.

Hounds are doubled on tongue, strengthened by a system of braces and supports. The double hounds, joined by heavy piece of steel, set edgewise, passing through strong loop, extending around end of tongue, preventing twisting or sagging, permitting no failure of hooks on hounds, catching on adjustable hooks on side of pan when lever is thrown forward for filling. Stationary hooks on hounds are strong and heavy, well braced and securely riveted.

RAILROAD and TOWNSHIP GRADING PLOWS.

HASLUP PATENT WHEEL SCRAPER.

IT LEADS



DESCRIPTION OF SIZES.

Order by Number Only. We Make Four Sizes.

No. 1.—Capacity, 9 cubic feet; size of bowl, 36 inches long, 36 inches wide, 12 inches deep; wheels, 36 inches high; tire, 3 x ¼; steel axle, 1½ inches square, arched high, spindles turned and polished; tongues, best quality of hardwood, heavily ironed, with double steel draft-bars; weight, 450 lbs.
Price $30.00

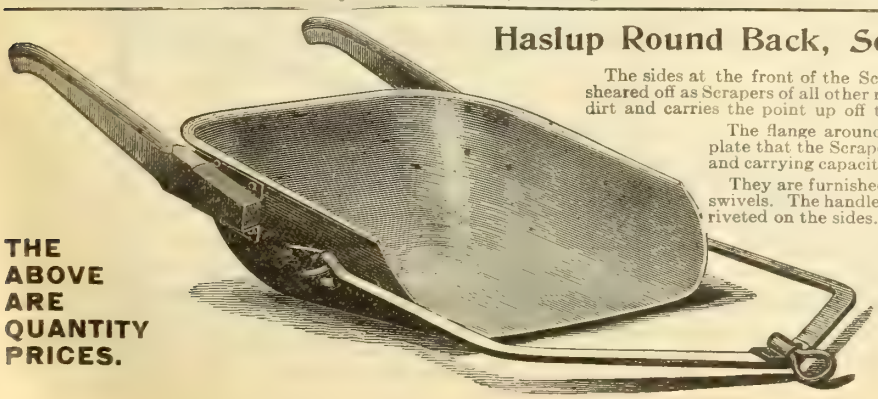
No. 2.—Capacity, 13 cubic feet; size of bowl, 37 inches long, 38 inches wide, 13½ inches deep; wheels, 40 inches high; tire, 3 x 5-16; steel axle, 1¾ inches square, arched high, spindle turned and polished; tongues, best quality of hardwood, heavily ironed; with double steel draft-bars; weight, 600 lbs.
Price, regular $37.50
Same, with Snatch Rod..... 38.50

No. 2½.—Capacity, 14½ cubic feet; size of bowl, 41 inches long, 38 inches wide, 14 inches deep; wheels, 44 inches high; tire, 3 x 5-16; steel axles, 1¾ inches square, arched high; spindle turned and polished; tongues, best quality hardwood, heavily ironed, with double steel draft-bars; weight, 675 lbs. Price, $40.00.

No. 3.—Capacity, 17 cubic feet; size of bowl, 41 inches long, 44 inches wide, 16 inches deep; wheel, 44 inches high; tire, 3 x 5-16; steel axle, 1¾ inches square, arched high, spindle turned and polished; tongues, best quality of hardwood, heavily ironed, with double steel draft-bars; weight, 750 lbs. Price, $42.50.

Nos. 2, 2½ and 3 are furnished with heavy wood hub wheels; hubs, spokes and rims made of thoroughly seasoned stock. Sarven or metal wheels are furnished when ordered. Nos. 2½ and 3 wheelers are furnished regularly with snatch rod, and No. 2 when specially ordered.
We can furnish doubletrees and neck-yokes when ordered, but charge extra for them.

Haslup Round Back, Solid Pressed Drag Scraper.



THE ABOVE ARE QUANTITY PRICES.

The sides at the front of the Scraper are carried up on a line with top and are not sheared off as Scrapers of all other makes are. This prohibits the Scraper from wasting dirt and carries the point up off the ground while returning from the dump.

The flange around the back and sides is a continuation of the same plate that the Scraper is made from, and adds very much to its strength and carrying capacity.

They are furnished with our long-tried steel bails and wrought-iron swivels. The handles are sawed tapering and driven into sockets securely riveted on the sides. The runners are made of special quality of hard steel and fastened to the Scraper with deep counter sunk head rivets.

No. 1.—With runners; capacity, 7 cubic feet; weight, 100 lbs.; price $6.25
No. 2.—With runners; capacity, 5 cubic feet; weight, 90 lbs.; price 6.00
No. 3.—With runners; capacity, 3½ cubic feet; weight, 80 lbs.; price 5.25
For single runners, add to above prices $1.00

UNCLASSIFIED GOODS.

Puritan Chick Food

is not a compound that has been accidentally produced, nor has it been unscientifically prepared.

The cause of the death of young chicks due to improper food has been most carefully and exhaustively studied, in a practical and accurate manner. Microscopic and chemical examinations of the digestive organs of chicks and careful investigations of the thorough and ready assimilation of the food fed has been resorted to.

Thus the percentage of proctein present in the chick food, as well as the other constituting elements are most correct and are the only ones by which a thoroughly practical chick food can be attained.

The preparation of the original formula has cost a great deal of money, time and labor involving the examinations under all possible circumstances, and combinations of them, of thousands of different cases, these examination by persons that are authorities on the subject.

The food as used on the Puritan Farms and what it has already done there, is sufficient proof of its efficiency, still since its advent upon the market it has been hailed only as an article that is in actual demand, and that gives proof at once to all that it fills all the requirements that are claimed for it.

Parties that have ONCE USED this food would not be without it, and as this rule applies so universally, all that is asked is a trial NO MATTER HOW SMALL; the result shall then be left to the food which will speak for itself.

5 lb. box, **35**c.; 25 lb. bag, **$1.50**; 50 lb. bag, **$2.50**; 100 lb. bag, **$4.50.**

Special prices in large quantities.

PURITAN LAYING STOCK FOOD.

Will bring you **Many More Eggs** at same cost in the end.

It contains no stimulant, no condition powders, and your fowls will always be in prime condition on an absolutely **balanced** rations. **Feed alternately out of each bag. Bag "A" first and Bag "B" next day.**

In bags of 50 lbs., price **$2.75** f. o. b. Balto. per 100 lbs.

Better prices can be made f. o. b. factory.

FARM AND RAILROAD GATE No. 22.

This is the King of all Gates. Frame 1¾ in. diameter, acorn tops, adjustable malleable hinges, heavy screw hooks to hang on wooden posts, hook catch, steel diagonal brace rod support. All wire work passes through the frame both ways. This Gate is extra strong and a seller, carried in stock by over 1,000 dealers and in use by over 40 Railroads, absolutely has no equal;

	List price.	Retail price.
No. 22—10 feet wide, 4 feet high	**$8.00**	**$7.25**
No. 22—12 feet wide, 4 feet high	**9.00**	**8.10**
No. 22—10 feet wide, 5 feet high	**9.00**	**8.10**
No. 22—12 feet wide, 5 feet high	**10.00**	**9.00**

Add 4 inches to sizes of gates for allowances for Hinges and Latches.

BUG DEATH.

DIRECTIONS FOR USING IN WATER.

Add 12½ pounds to 80 gallons water, and mix thoroughly.

1-lb. Pkge	**15c.**
3-lb. Pkge	**35c.**
5-lb. Pkge	**50c.**
12½-lb. Pkge	**$1.00**
100 lbs	**7.00**

Add 17c. per lb. for postage.

PERFECTION SHAKER.
75 cents.
For applying Bug Death to potato vines.

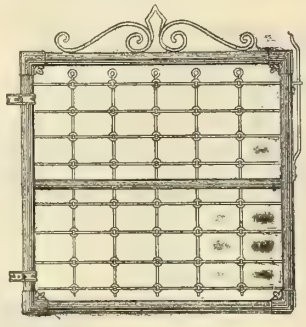
RUBBER ATOMIZER.
65 cents.
For applying Bug Death to currant bushes, cucumber, squash and other small vines, bushes, house plants and poultry.

THE KEYSTONE CALF FEEDER

Each, $1.50

solves the farmer's trouble and the calves' too. It is a perfect substitute for the natural method, and the calf, when taken from the cow, does not have to learn a new way of feeding. It can even butt to its heart's content and not hurt itself the least bit, while all the time a stream of nourishing food is gently trickling down the throat. The food has been mingled with saliva, secreted as a result of the calf's efforts at sucking and chewing, and is in proper condition to be absorbed into the system. The result is that the calf is strong and healthy it looks sleek and fat, and it has a glossy coat.

TOP SCROLL No. 11.



No. 11 Lawn Gate.

Frame 1⅜ in. diameter, made of Steel Tubing, flush joints, square corners, steel scroll top, galvanized wire, 4x5 in. mesh panel work. Adjustable malleable hinges, with attachments to hang on wood or iron posts and catch for either iron or wood posts.

PRICES.	List price	Retail price.
3½ ft. wide, 4 ft. high.	**$6.25**	**$5.65**
3½ ft. wide, 5 ft. high.	**6.75**	**6.15**

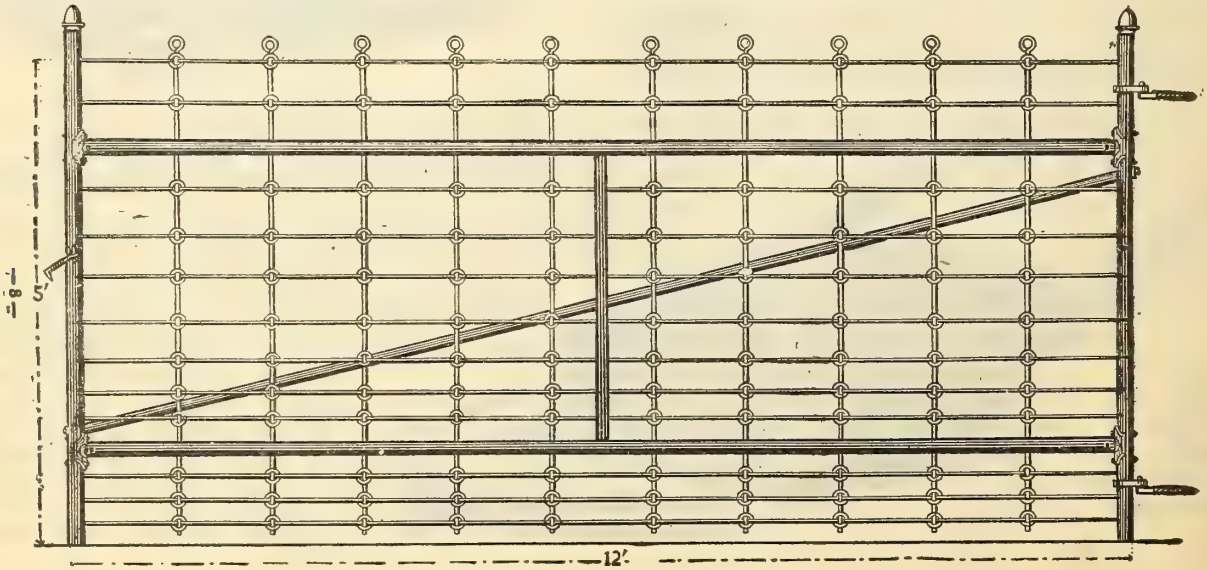
HEAVY LAWN GATE No. 13 Plain Top.

Same style construction and top as No. 22 Farm Gate shown below.

Frame 1⅜ inch in diameter, made of Steel Tubing, malleable hinges and post attachments, hook catch, acorn top.

This is an exceptionally strong gate, suitable for farm, stock or railroad gates, where extra strong ones are required.

PRICES		No. 13.	No. 11.
	3½ ft. wide, 4 ft. high.	List price, **$5.75**	Retail price, **$5.25**
	3½ ft. wide, 5 ft. high.	" **6.25**	" **5.75**



UNCLASSIFIED GOODS.

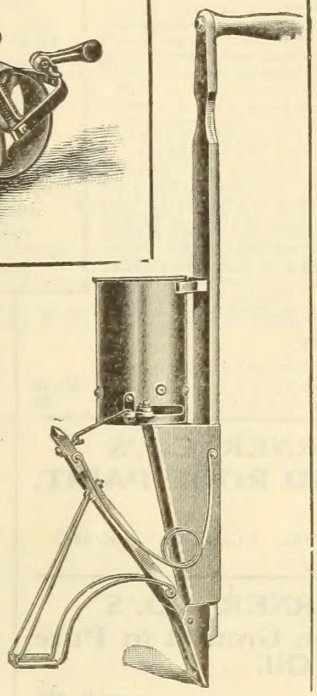
Corn and Cotton Drill No. 45.

is equipped with runner share covering shovels and press wheel, as shown in cut. The wheel is raised and lowered by means of the lever and has a ratchet to enable the operator to set the runner to any desired depth.

The wheel scraper is arranged to act continuously or as occasion requires.

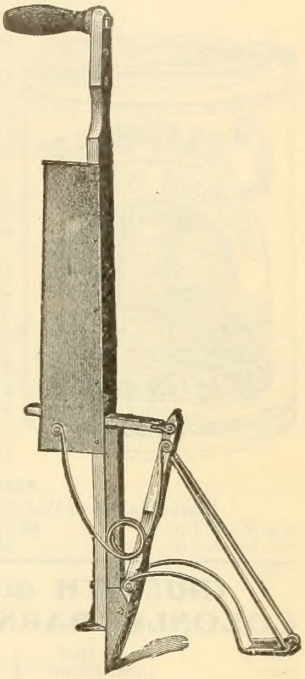
Price, **$12.00.**

American Hand Corn Planters.



Are fitted with Sheffield's famous patent adjustable seed disc, and spring brass cut-off. The disc revolves similar to disc used in horse planters, and is one of the best finished and most accurate dropping discs ever used in corn planters of any description. Price, **$1.75.**

The Leader Hand Corn Planter



Will plant seeds ranging in size from **Pop Corn** to large **Kidney Beans** and never skips a hill. Has a sheet brass seed cut-off. Does not injure the grain. A planter that is first-class in material, finish and workmanship and built for wear.

Price, **$1.25.**

Ideal Plow Sulky

A BOY CAN USE IT.

Price..... **$12.00**

We illustrate the **Ideal Plow Sulky,** which is beyond any doubt a most wonderful labor-saving device, and may be attached to any make of plow in ten minutes time, thus converting the ordinary plow into the finest and most easily regulated sulky plow on the market.

The wheels are steel with malleable iron hubs, and have renewable boxes and spindles. The axles are two in number, and are made of steel passing through the entire length of the main frame, thus making it doubly strong and well able to withstand any strain that may be brought to bear upon it.

This machine has been tested in all kinds and conditions of soil and have found that it possessed all the qualities of the best sulky plow made. It will keep the plow running regularly in the hardest kind of ground without the assistance of the operator.

This sulky is made for either a right or left hand plow, and a trial is all that is necessary to convince the most exacting as to its merits.

Bicycle Garden Plow.

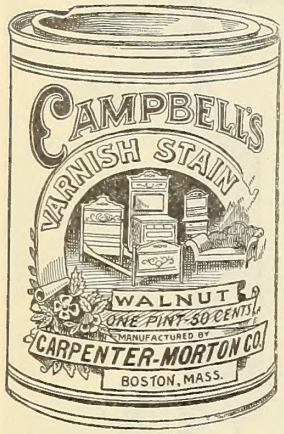
The only hand push Garden Plow made, that can be adjusted to plow any depth desired. to the depth of five inches by simply loosening the Adjusting Bolt and setting plow to suit, which can be done in less than one minute. When once the plow is set to plow a desired depth, it cannot be made to go any deeper, thus insuring uniform cultivation. The handles can be raised to suit the tall man, or lowered to fit the small boy. The front wheel can be adjusted to give any desired angle to the tools.

Price, **$4.00.**

UNCLASSIFIED GOODS.

CAMPBELL'S VARNISH STAINS.

THE ORIGINAL AND GENUINE.
ONLY REAL VARNISH STAINS EVER MADE.



Is different from any other so-called Varnish Stain on the market. It is made of a high-grade Waterproof Varnish made especially for the purpose, and treated in such a manner as to produce with one application beautiful imitations of natural woods finished in Varnish. Campbell's Varnish Stain is transparent thereby preserving the grain and beauty of the natural wood, and at the same time giving a splendid colored effect.

It dries hard with a durable gloss, and the colors remain permanent. Campbell's Varnish Stain does not settle in the can. It does not contain any pigment whatever. The colored effects are the results of a peculiar process, perfected after years of labor and costly experiments. **Costs only a little more than other Varnish Stains and goes twice as far**

Cherry Walnut Mahogany
Light Oak Dark Oak Rosewood

PRICE LIST.

(Packed in Patent Push-Top Cans bearing full Directions.)

Size No. 1, ½ pt.	$0.15	Size No. 3, 1 pt.	$0.50
Size No. 2, ½ pt.	.25	Size No. 4, 1 qt.	.85

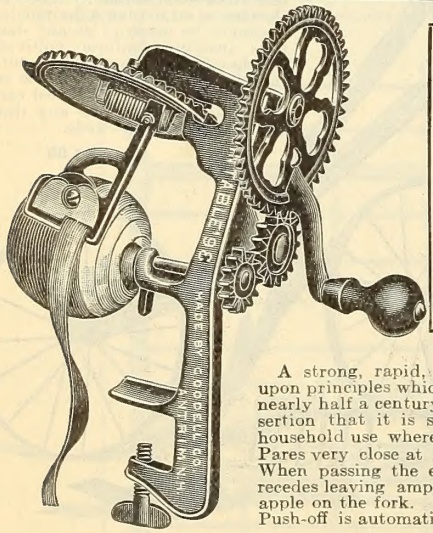
GRIFFITH & TURNER CO.'S COLONIAL BARN AND ROOF PAINT.

Yellow, Bright Red, Slate, Light Brown, Bronze Green, Dark Red, Lead, Dark Brown — Gals., **75c.** ½ Gals., **85c.** Qts., **95c.**

GRIFFITH & TURNER CO.'S Colonial Lead and Zinc Ground in Pure Linseed Oil.

Assorted Kegs of 500 lb. lots and over	per lb.	6½c.
1 to 5 lb. tins	"	8c.
12½ lb. tins	"	7c.
25 lb. tins	"	6¾c.

Colonial Lead and Zinc is not effected by acids or foul gases and does not oxidize or destroy Linseed Oil. It will not chalk as will pure Carbonate of Lead and it will remain white in any climate or harbor in this country.



THE '98 TURN-TABLE APPLE PARER

A strong, rapid, durable machine, built upon principles which have stood the test of nearly half a century and warranting the assertion that it is superior to all others for household use where paring only is desired. Pares very close at both ends of the apple. When passing the end of the fork the knife recedes leaving ample room for placing the apple on the fork. Does not core nor slice. Push-off is automatic. Price, **70c.** each.

GRIFFITH & TURNER CO.'S CELEBRATED

COLONIAL PREPARED PAINT

All ordinary colors, including White and Black.

Gals.	½ Gals.	Qts.	Pints.
$1.25	$1.35	$1.45	$1.55

Yellow No. 66. Blue No. 70.
Greens Nos. 71 and 72.

Gals.	½ Gals.	Qts.	Pints.
$1.40	$1.50	$1.60	$1.70

Vermillion No. 67.

Gals.	½ Gals.	Qts.	Pints.
$1.50	$1.60	$1.70	$1.80

GRIFFITH & TURNER'S COLONIAL FLOOR PAINT.

Steel Gray, Granite, Light Lead, Dark Lead, Ohio Stone, Cinnamon, French Yellow, Terra Cotta — Gals. $1.35, ½ Gals. $1.45, Qts. $1.55

GRIFFITH & TURNER CO.'S HOUSEHOLD PREPARED PAINT.

Put up in one pound cans for family use.
All shades including Yellow, Blue, Green and Vermillion. In one pound Cans, Per dozen.....$1.00

Davis' Best Prepared Paint.

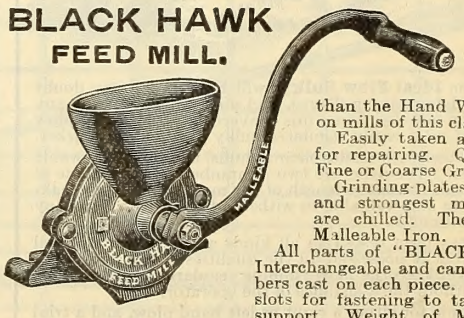
Fac-simile of guarantee label which appears on every can.

All prices on paints, leads, etc., subject to change.

PUREST PAINT MADE.

	Gals.	½ Gals.	Qts.
All ordinary colors, including Outside White and Black	$1.50	$1.60	$1.70
Inside White	1.60	1.70	1.80
Yellow No. 66, Blue No. 70, Greens Nos. 71, 72 and 73	1.65	1.75	1.85
Vermillion No. 67, Automobile Red No. 68	1.80	1.90	2.00

BLACK HAWK FEED MILL.



Will grind **Corn, Wheat, Rye** or other small grain. Long crank will be found better than the Hand Wheels usually found on mills of this class.

Easily taken apart for cleaning or for repairing. Quickly adjusted for Fine or Coarse Grinding.

Grinding plates are made of hardest and strongest metals. All bearings are chilled. The long crank is of Malleable Iron.

All parts of "BLACK HAWK" Mill are Interchangeable and can be ordered by numbers cast on each piece. Has both holes and slots for fastening to table, bench or other support. Weight of Mill 17 lbs. Retail price, **$3.00.** Extra Grinders, **40c.** per pair.

VALUABLE INFORMATION.

How to Make INSECTICIDES.

FUNGICIDES.

BORDEAUX MIXTURE.

Copper Sulphate.....6 pounds.
Quicklime .....4 pounds.
Water .....40-50 gallons.

Dissolve the copper sulphate by putting in a bag of coarse cloth and hanging this in a vessel holding at least 4 gallons, so that it is just covered by the water. Use an earthern or wooden vessel. Slake the lime in an equal amount of water. Then mix the two, and add enough water to make 40 gallons. It is then ready for immediate use, but will keep indefinitely. If the mixture is to be used on peach foliage, it is advisable to use an extra pound of lime to the above formula. When applied to such plants as carnations or cabbages, it will adhere better if about a pound of hard soap be dissolved in hot water and added to the mixture. For rots, molds, mildews, and all fungous diseases.

AMMONIACAL COPPER CARBONATE.

Copper carbonate .....1 ounce.
Ammonia—enough to dissolve the copper.
Water.....9 gallons.

The copper carbonate is best dissolved in large bottles, where it will keep indefinitely, and it should be diluted with water as required. For the same purpose as Bordeaux Mixture.

COPPER SULPHATE SOLUTION.

Copper Sulphate .....1 pound.
Water .....15 gallons.

Dissolve the copper sulphate in the water, when it is ready for use. This should never be applied to foliage, but must be used before the buds break. For peaches and nectarines, use 25 gallons of water. For fungous diseases.

INSECTICIDES.

PARIS GREEN. (Arsenites.)

Paris Green .....1 pound.
Water .....200-300 gallons.

If this mixture is to be used on peach trees, 1 pound of quicklime, should be added. Paris Green and Bordeaux Mixture can be applied together with perfect safety. Use at the rate of 4 ounces of the arsenites to 50 gallons of the mixture. The action of neither is weakened, and the Paris Green loses all caustic properties. For insects which chew. If to be used in our little sprayers, this solution is too weak. Use the smaller quantity of water.

LONDON PURPLE.

This is used in the same proportion as Paris Green, but as it is more caustic, it should be applied with two or three times its weight in lime, or with the Bordeaux Mixture. The composition of London Purple is exceedingly variable, and unless good reasons exist for supposing that it contains as much arsenic as Paris Green, use the latter poison. Do not use London Purple on peach or plum trees, unless considerable lime is added. For insects which chew.

HELLEBORE.

Fresh White Hellebore .....1 ounce.
Water .....2 gallons.

Apply when thoroughly mixed. This poison is not so energetic as the arsenites, and may be used a short time before the sprayed portions mature. For insects which chew.

KEROSENE EMULSION.

Hard Soap .....½ pound.
Boiling Water .....1 gallon.
Kerosene .....2 gallons.

Dissolve the soap in water, add the kerosene, and churn with a pump for 5 to 10 minutes. Dilute 10 to 25 times before applying. Use strong emulsion for all scale insects. For insects which suck, as plant lice, mealy bugs, red spider, thrips, bark lice, or scale. Cabbage worms, currant worms, and all insects which have soft bodies, can also be successfully treated.

HOW AND WHEN TO SPRAY.

PLANT.	FIRST APPLICATION.	SECOND APPLICATION.	THIRD APPLICATION.	FOURTH APPLICATION.	FIFTH APPLICATION.
Apple.—(Canker worm, codling moth, bud moth, scab.)	Spray before buds start, using copper sulphate solution.	After the blossoms have formed, but before they open, Bordeaux and Paris green.*	Within a week after blossoms have fallen, Bordeaux and Paris green.	10 to 14 days later, repeat.	10 to 14 days later, Bordeaux or weak copper sulphate.
Asparagus.—(Rust.)	As soon as brush appears Bordeaux or Soda-Bordeaux.	*Repeat every few days.*	Burn badly affected stools.		
Bean.—(Anthracnose.)	When blossoms appear, spray with Bordeaux.	10 days later repeat.	10 to 14 days later, weak copper sulphate solution.	Repeat last, if necessary.	
Cabbage.—(Worms, aphis.)	When worms first appear, kerosene emulsion, or Paris green.	If worms or aphides are present, repeat if plants are not heading, using emulsion for aphis.	If aphides persist, or if worms reappear, use kerosene emulsion, if plants are not heading.	After heads form, use saltpetre for worms, a teaspoonful to a gallon of water; emulsion for aphides.	Repeat, if necessary.
Carnation.—(Rust and other fungous diseases.)	When planted out, dip in Bordeaux.	7 to 12 days later, spray plants with Bordeaux.	Repeat at intervals of a week or ten days until blossoms open.	While in bloom, spray every week with the dilute copper sulphate solution.	
Cherry.—(Rot, aphis, curculio and slug.)	Before buds start, use copper sulphate solution. For aphis, kerosene emulsion.	When fruit has set, Bordeaux and Paris green.*	10 to 12 days later, if signs of rot appear, repeat.	10 to 12 days later, copper sulphate solution, WEAK.	Repeat, if necessary.
Currant.—(Worms, mildew.)	As soon as worms are seen, Paris green.	If they reappear, repeat, adding Bordeaux for mildew.†	If worms still trouble, pyrethrum or hellebore.†		
Gooseberry.—(Mildew, worms.)	As leaves open, Bordeaux and Paris green.	In 10 to 14 days, repeat with both.	10 to 14 days later, sulphide of potassium on English varieties.	10 to 14 days later repeat, if necessary.	If mildew persists after crop is gathered, Bordeaux.
Grape.—(Flee-beetle, fungous diseases.)	Before buds burst, copper sulphate solution and Paris green.	When first leaves are half grown, Bordeaux and Paris green.	As soon as fruit has set, repeat.*	10 to 14 days later, Bordeaux mixture, if disease is present.	If necessary, very weak copper sulphate solution.
Nursery Stock.—(Fungous diseases.)	When buds burst, Bordeaux.	Repeat at intervals.	of 10 to 14 days.		
Peach, Apricot.—(Leaf-curl, curculio, mildew and rot.)	Before buds swell, copper sulphate solution.	As soon as fruit has set, Bordeaux and Paris green.*	10 to 12 days later, repeat.	10 to 12 days later, repeat.	If rot persists, use very weak copper sulphate solution every 5 to 7 days.†
Pear—(Leaf-blight, scab, psylla and codling moth.)	Before buds start, copper sulphate solution	Within a week after blossoms fall, Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 16 days later, Bordeaux.	10 to 16 days later, Bordeaux.†
Plum.—(Black knot, rot, and all fungous diseases, curculio.)	As buds start, copper sulphate solution. Cut out knot and burn.	When fruit has set, Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 20 days later, Bordeaux.	Weak copper sulphate solution, as is necessary.
Potato.—(Beetles, scab, blight.)	For scab, soak seed in corrosive sublimate solution (2 oz. in 16 gallons of water for 90 minutes.)	When beetles or their larvæ appear, Paris green (1 pound to 100 pounds of plaster.)	Repeat whenever necessary.	When blight of the leaves is accompanied by rot of the tubers, Bordeaux.	Repeat, if necessary.
Quince.—(Leaf and fruit spot, rot.)	Before buds start, copper sulphate solution.	When fruit has set, Bordeaux and Paris green.*	10 to 12 days later, repeat.	10 to 20 days later, Bordeaux.	Bordeaux or copper sulphate sol., as is necessary.
Raspberry, Blackberry.—(Anthracnose, rust.)	Cut out badly diseased canes. Spray with copper sulphate solution before growth starts.	When new canes are one foot high, spray with Bordeaux mixture.	10 to 14 days later, weak copper sulphate solution.	When crop is gathered, remove old canes, thin new ones and spray with Bordeaux mixture.	
Rose.—(Mildew, black spot, red spider, aphis.)	Mildew: Keep heating pipes painted with equal parts lime and sulphur mixed with water to a paste.	Black spot: Spray plants once a week with weak copper sulphate.	Red spider: Kerosene emulsion to under side of foliage.	Aphis: Kerosene emulsion.	
Strawberry.—(Rust.)	Just before blossoms open, Bordeaux and Paris green.	When fruit has set, Bordeaux* or WEAK copper sulphate solution.	As soon as berries are harvested, Bordeaux (if to be kept longer.)		
Tomato.—(Rot and blight, worms.)	When first fruits have set, Bordeaux.	If disease appears, repeat* or use weak copper sulphate solution.	If necessary, spray with weak copper sulphate solution.		
Violet.—(Blight, red spider.)	When blight is first seen, weak copper sulphate. Kerosene emulsion for insects.	Repeat at intervals of 10 to 20 days, as necessary for blight.	NOTE.—Use kerosene emulsion, very weak.		

EXPLANATION.—Whenever an Asterisk (*) is used it cautions against spraying with poisons while the plants are in blossom. A Dagger (†) indicates that there is danger of making an application within three weeks of the time the fruit is to be used as food.

GRIFFITH & TURNER CO.

BALTIMORE

Farm and Garden Supplies